

FIG.1

TRANSMISSION OF ELECTROMAGNETIC WAVES IN SATELLITE BROADCAST (DIAGRAM)

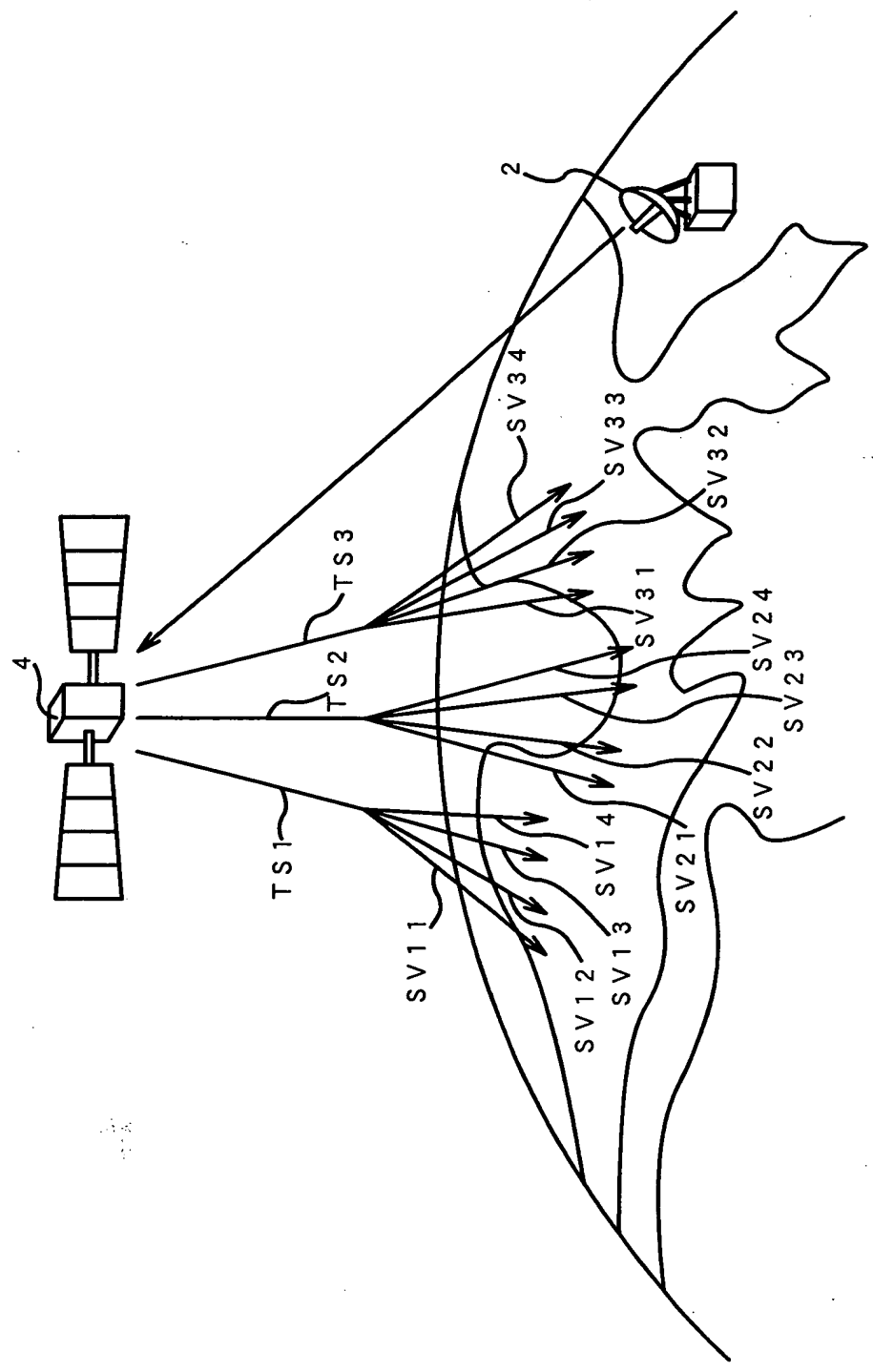


FIG.2

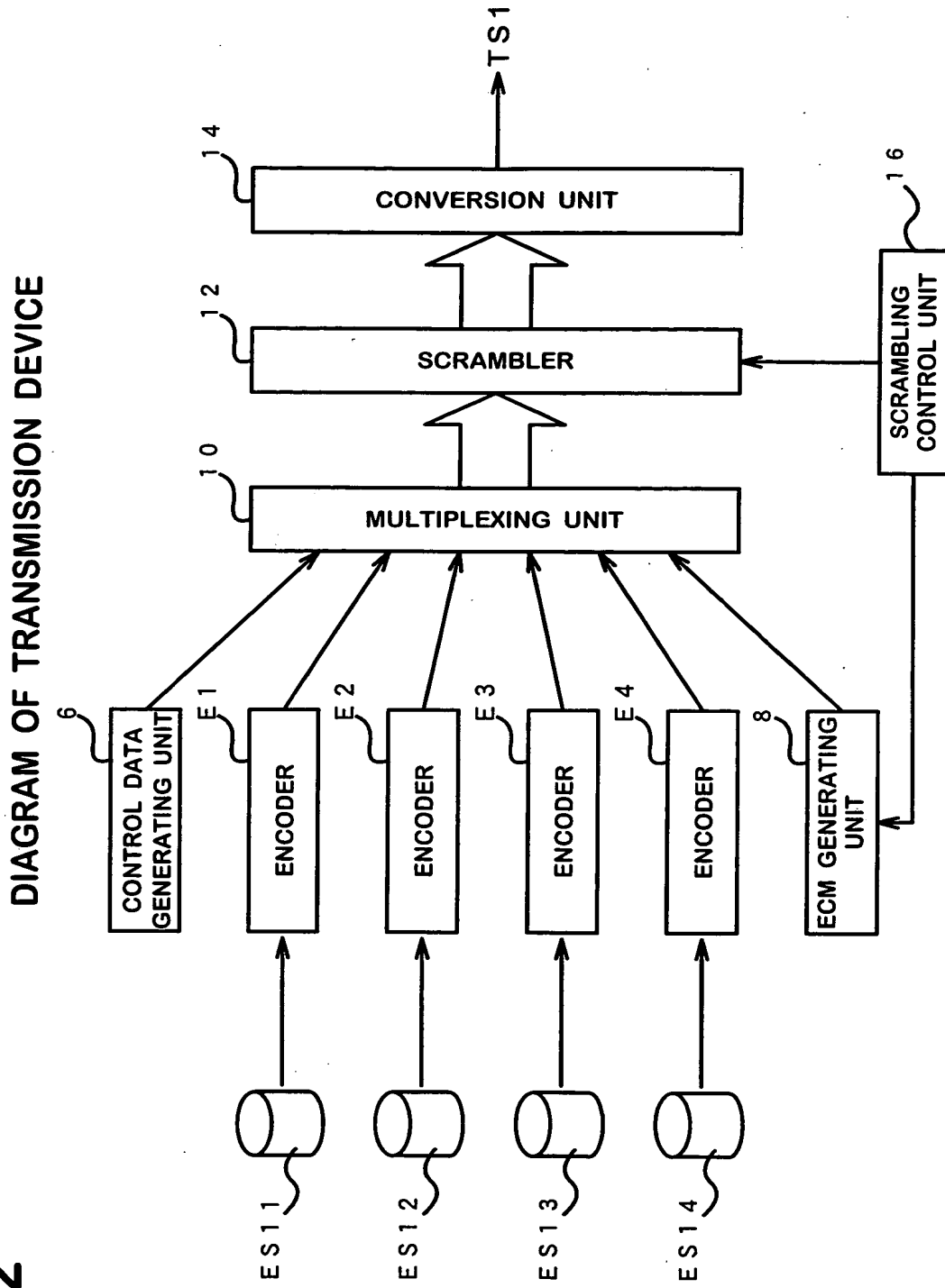
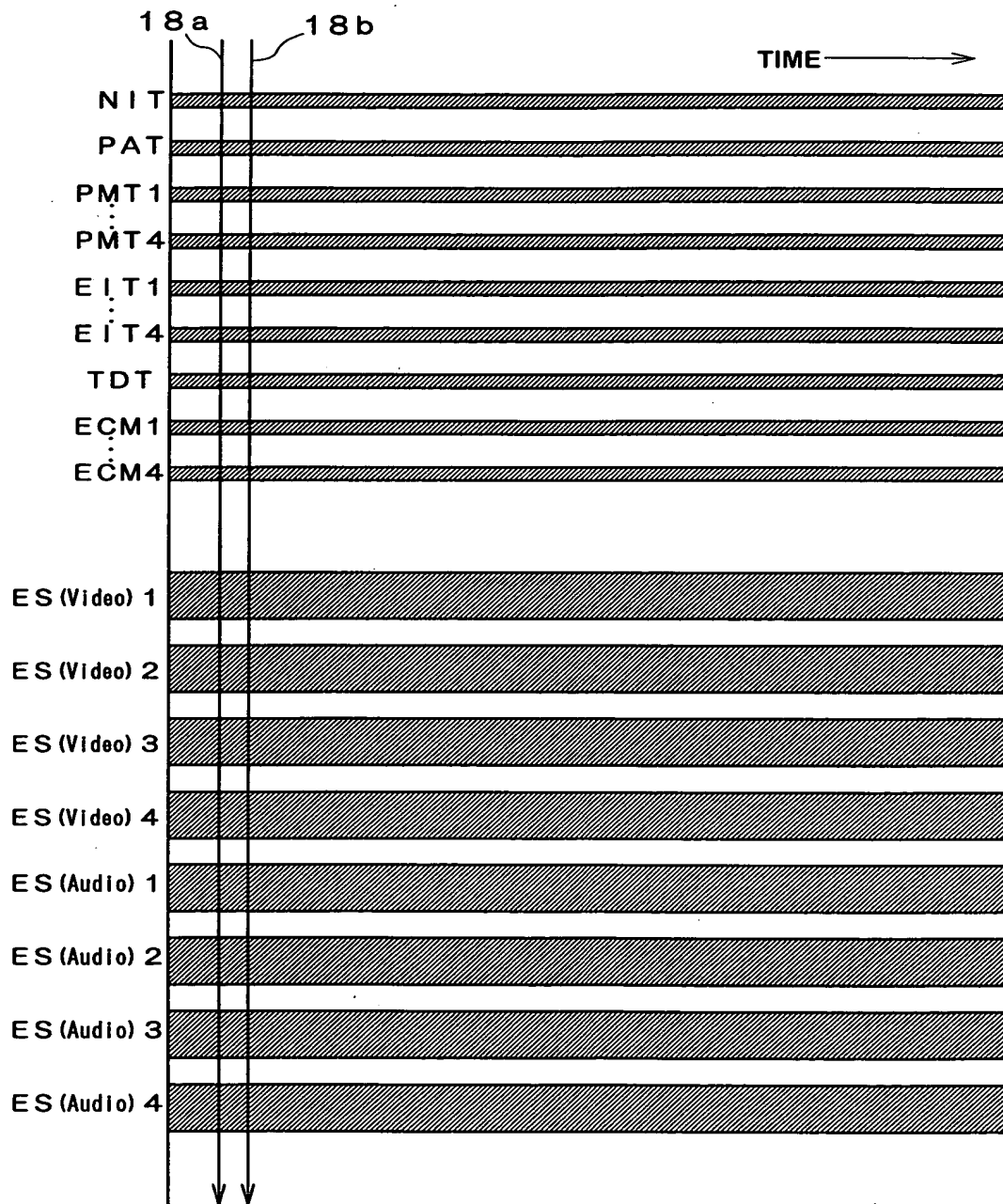


FIG.3

DATA PACKETIZATION



000001 25212100

FIG.4

STRUCTURE OF PACKETIZED DATA



FIG. 4

FIG.5

PMT 1 (PID=0X11)

VIDEO		AUDIO	
PID OF ECM	PID OF ES	PID OF ECM	PID OF ES
0X21	0X22	0X21	0X24

00000000 25262400

FIG.6

PAT (PID=0X00)

SERVICE	PID OF PMT	PID OF NIT
SV11	0X0011	0X18
SV12	0X0012	
SV13	0X0013	
SV14	0X0014	

00474357-499399

[illegible]

N I T

(P | D=0x18)

TS	TRANSMISSION PARAMETERS	SERVICE LIST
TS1	f ₁	SV11、SV12、SV13、SV14
TS2	f ₂	SV21、SV22、SV23、SV24
⋮	⋮	⋮

FIG.8

DIAGRAM OF RECEPTION DEVICE

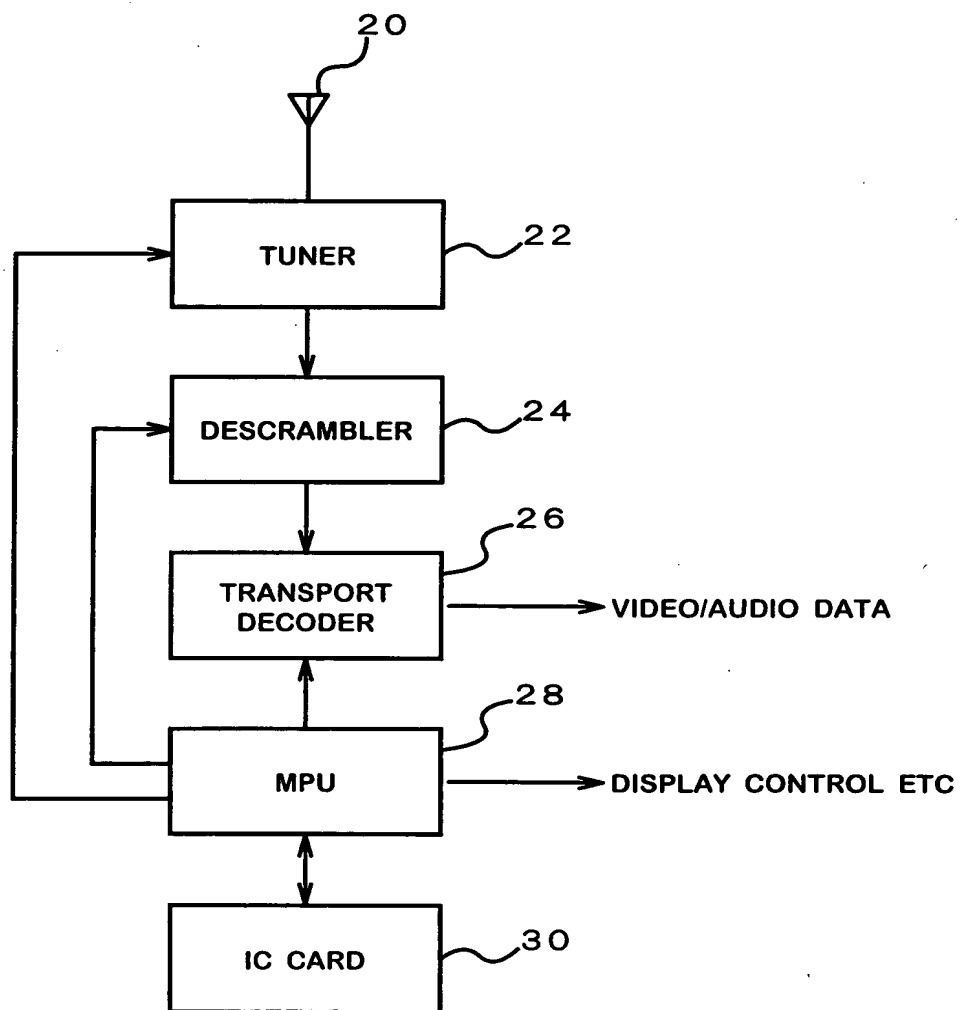


FIG.9

OVERALL LAYOUT DIAGRAM OF
RECEPTION/RECORDING/REPRODUCTION DEVICE
(FIRST EMBODIMENT)

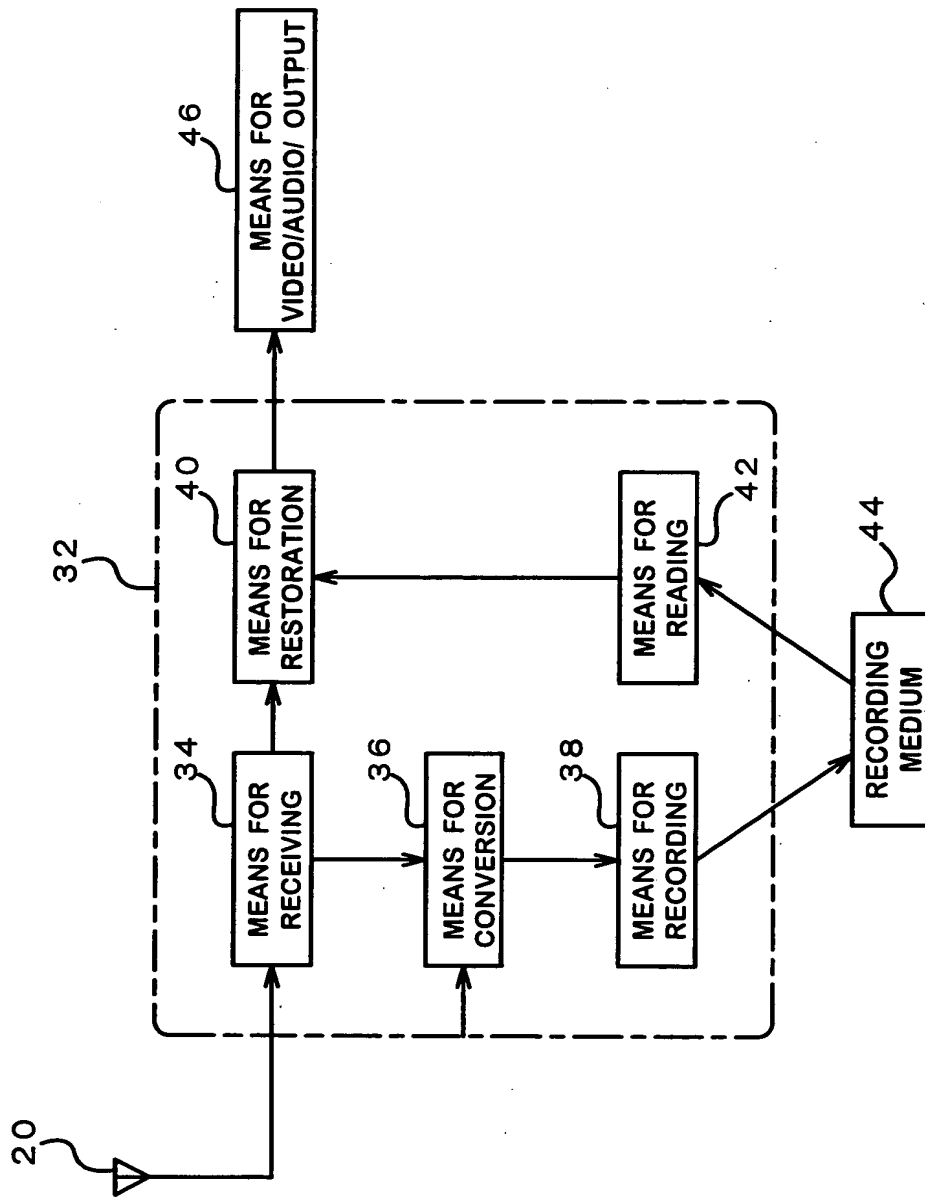


FIG. 10 BLOCK DIAGRAM OF RECEPTION / RECODING / REPRODUCTION DEVICE

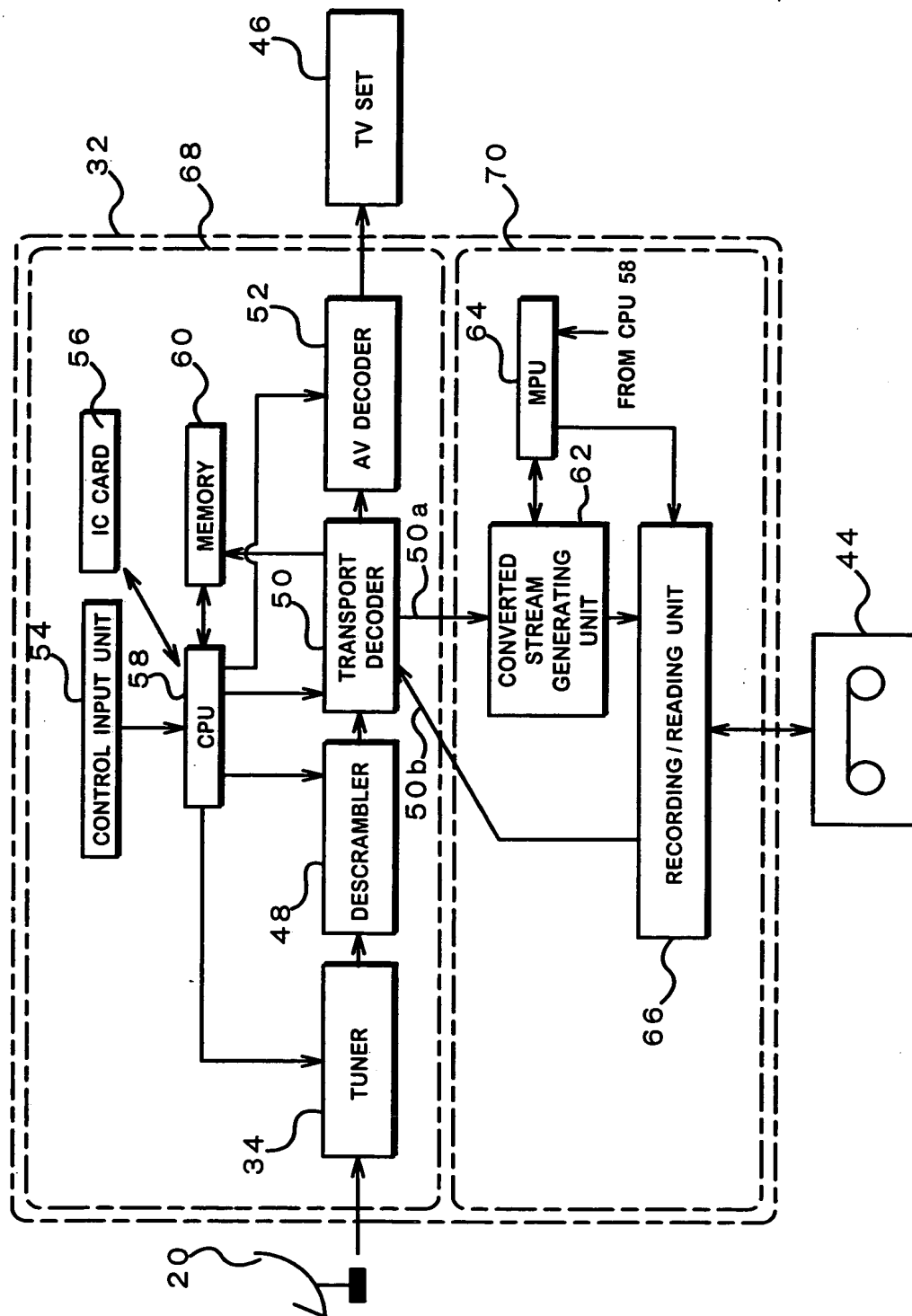


FIG.11

RECEPTION MODE

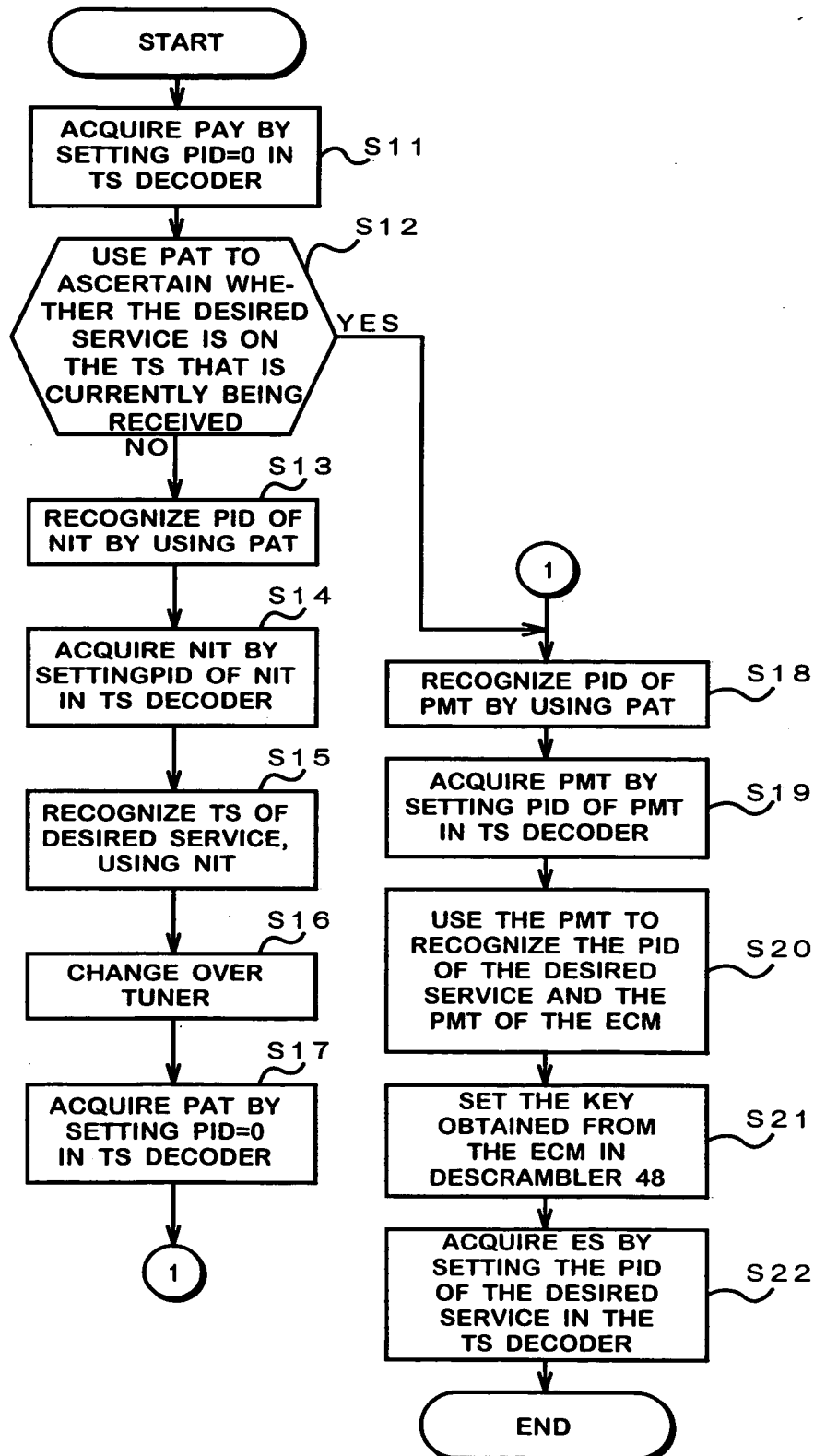


FIG.12

RECORDING MODE

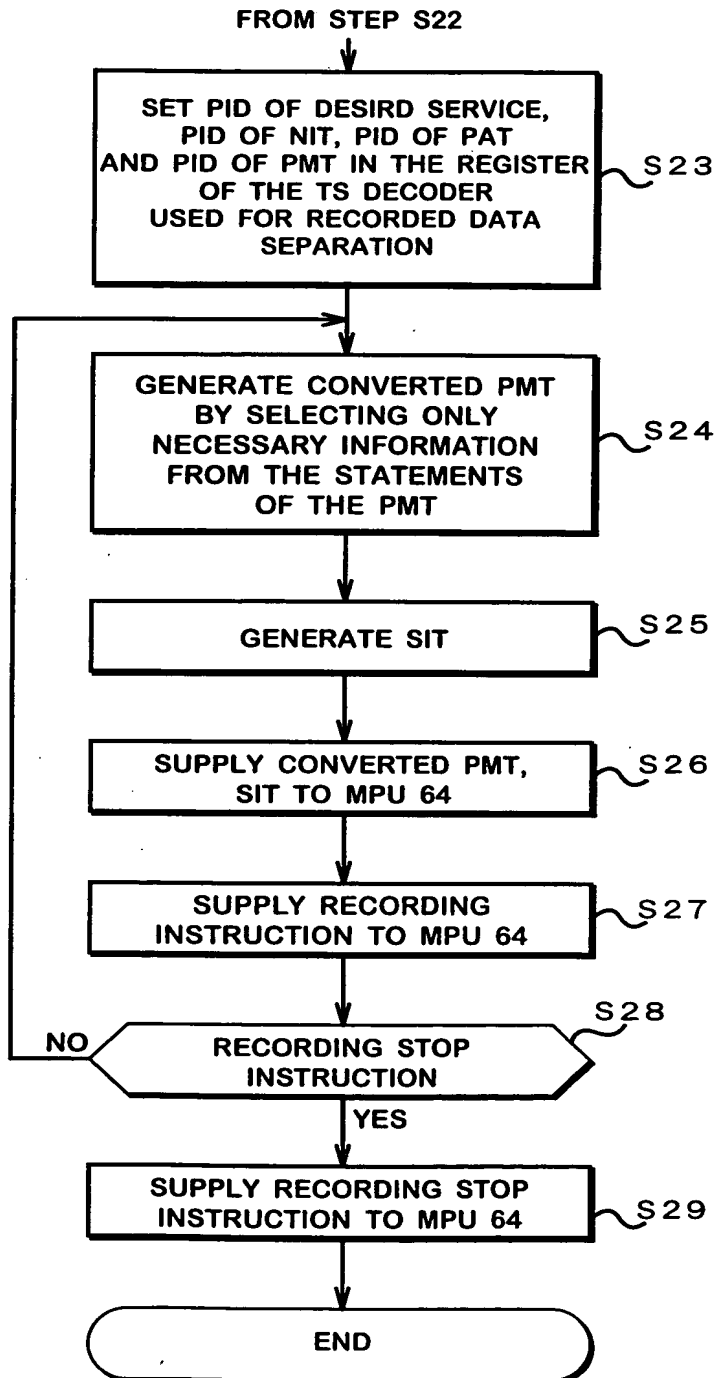


FIG.13

**CONVERTED STREAM RECORDED ON
RECORDING MEDIUM**

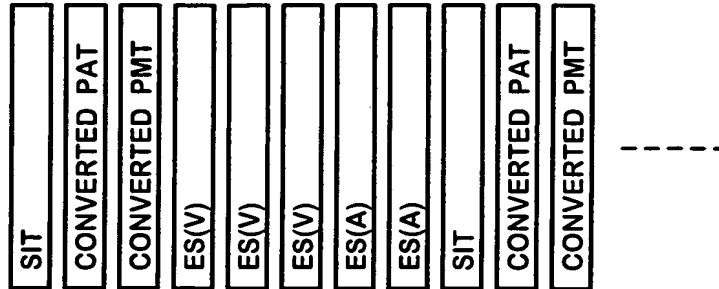
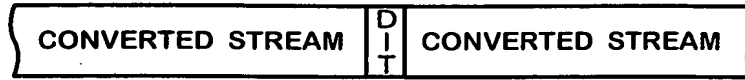


FIG.14



0044357 433300
000000 000000

FIG.15

REPRODUCTION MODE

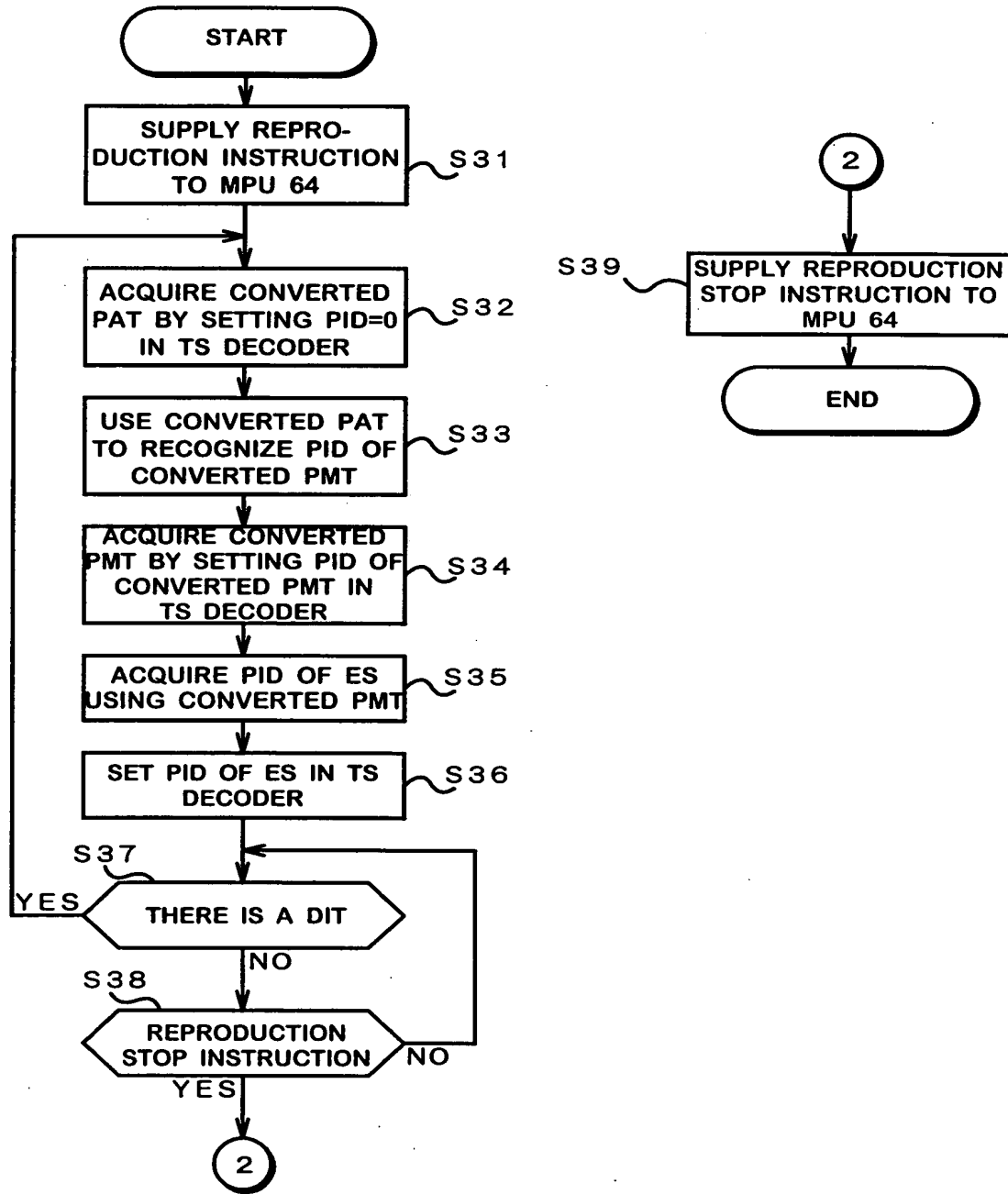


FIG. 16

OVERALL LAYOUT DIAGRAM OF
RECEPTION/RECORDING/REPRODUCTION DEVICE
(SECOND EMBODIMENT)

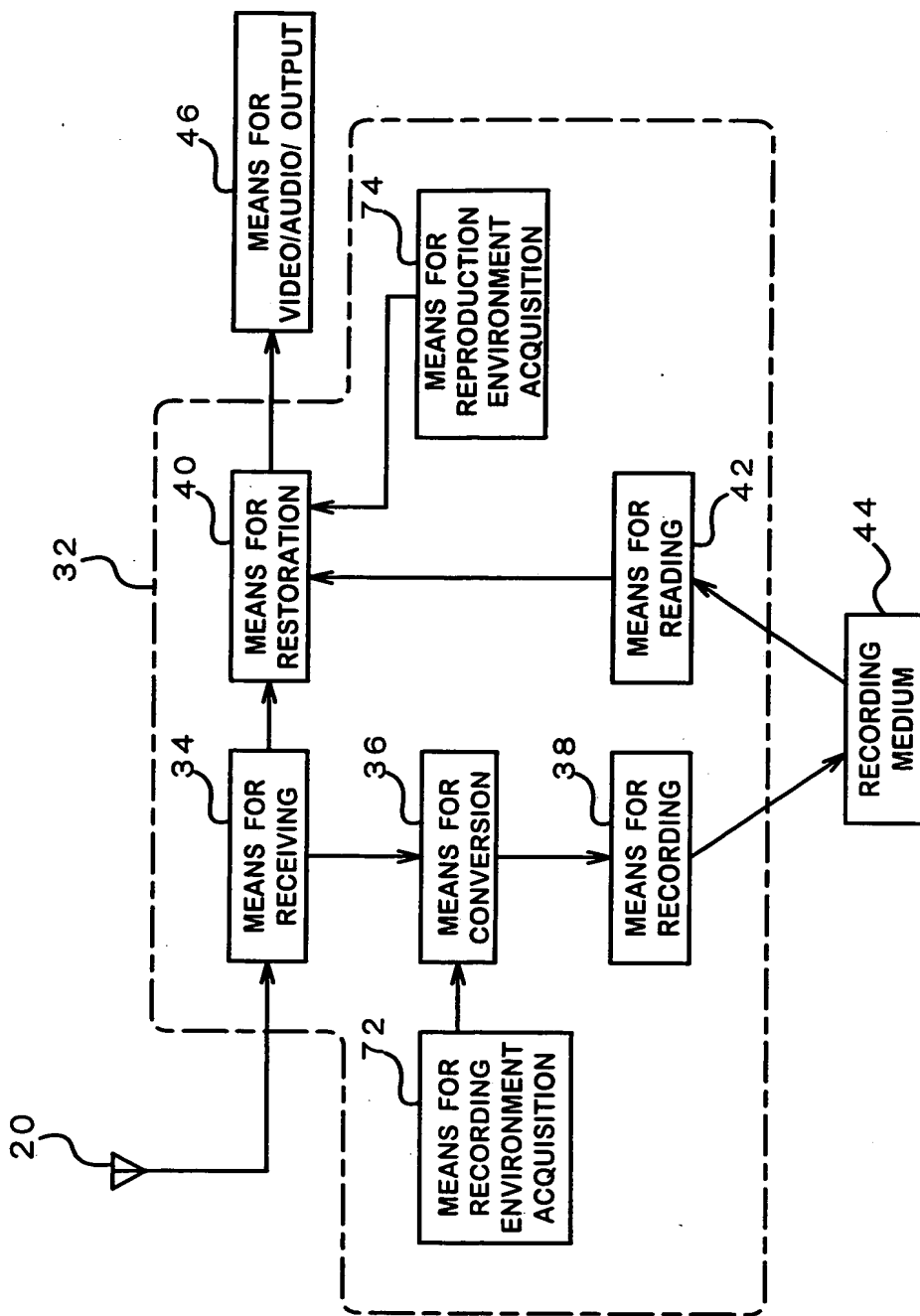


FIG.17

RECORDING MODE

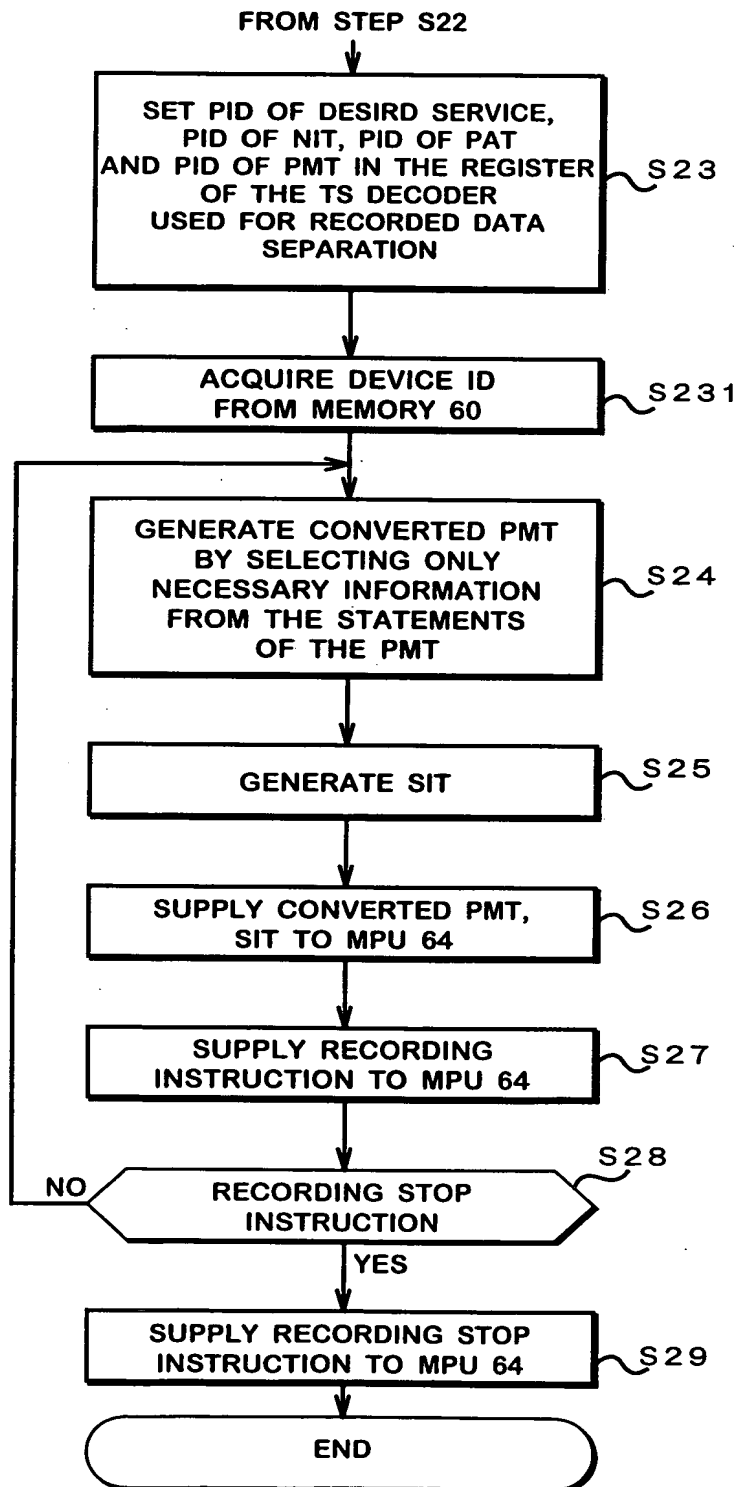


FIG.18

REPRODUCTION MODE

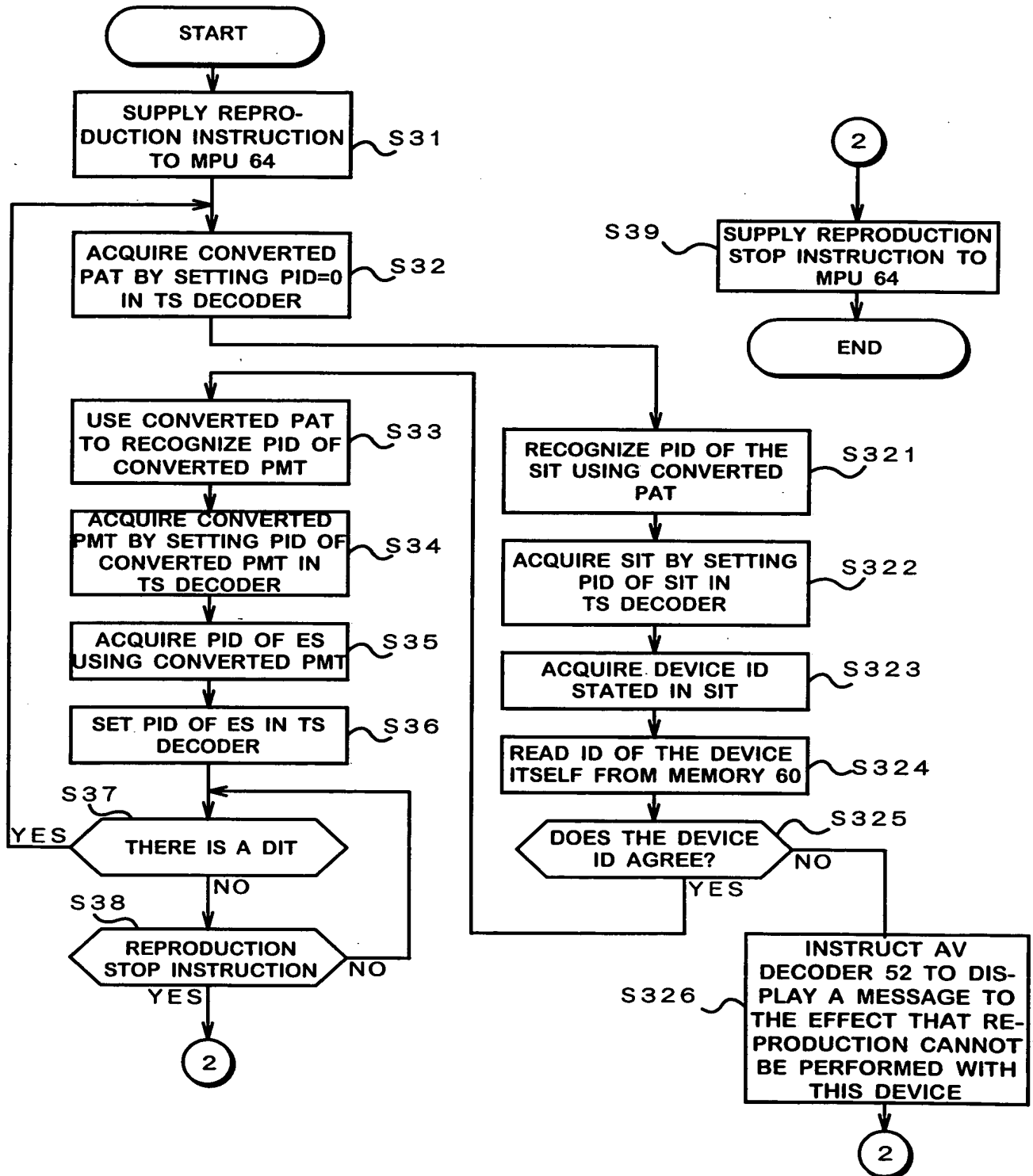


FIG. 19

OVERALL LAYOUT DIAGRAM OF
RECEPTION/RECORDING/REPRODUCTION DEVICE
(THIRD EMBODIMENT)

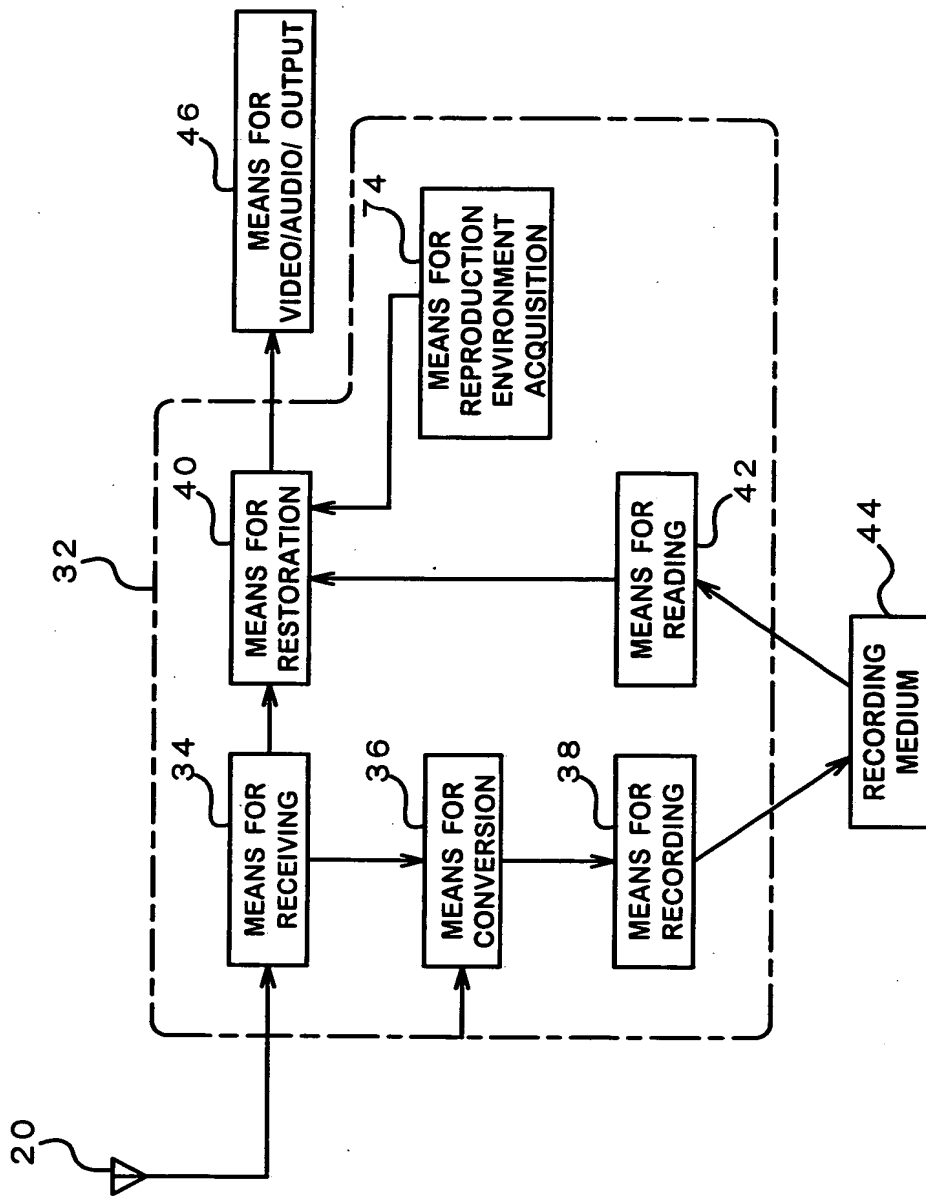


FIG.20

DATA PACKETIZATION

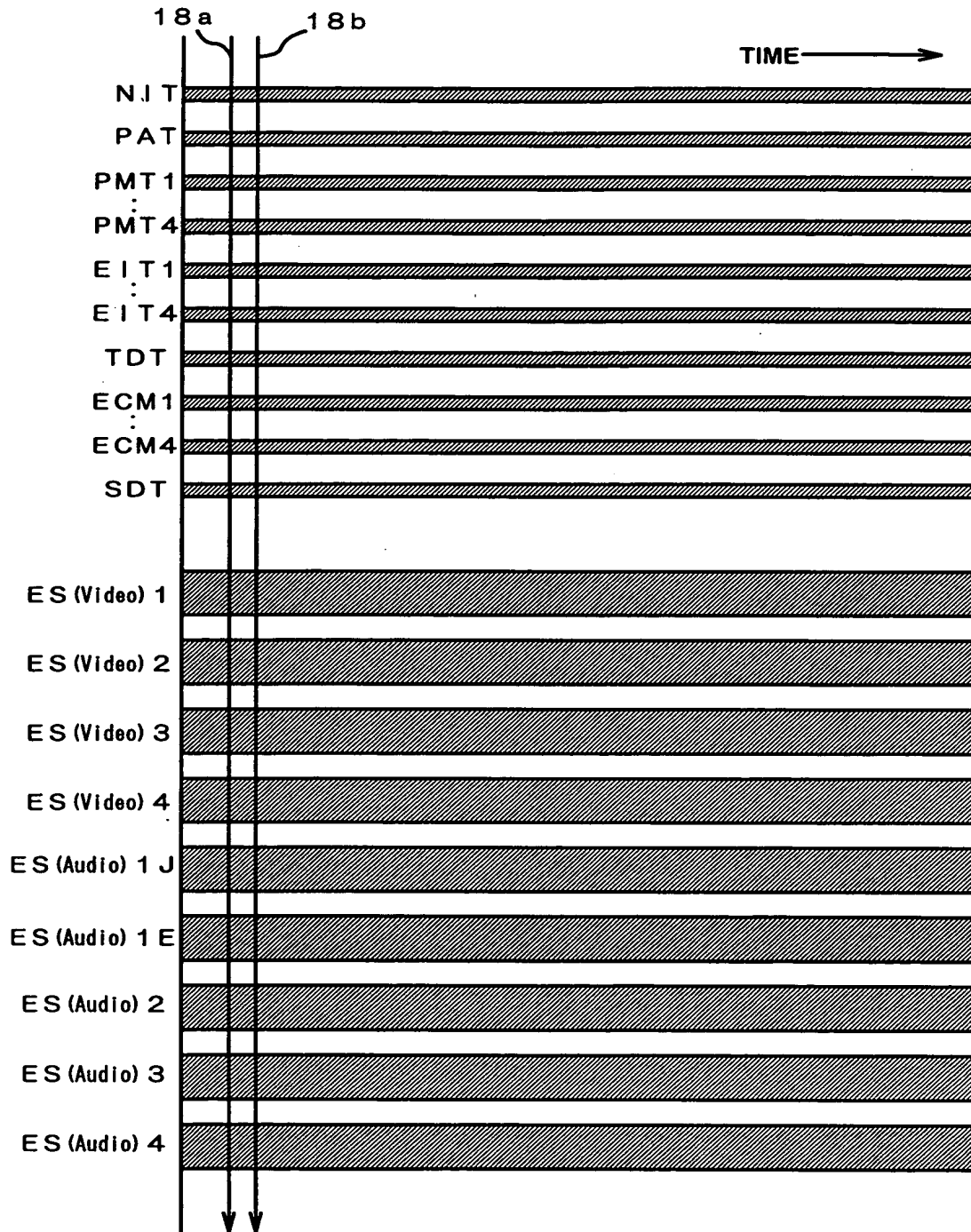


FIG.21

RECEPTION MODE

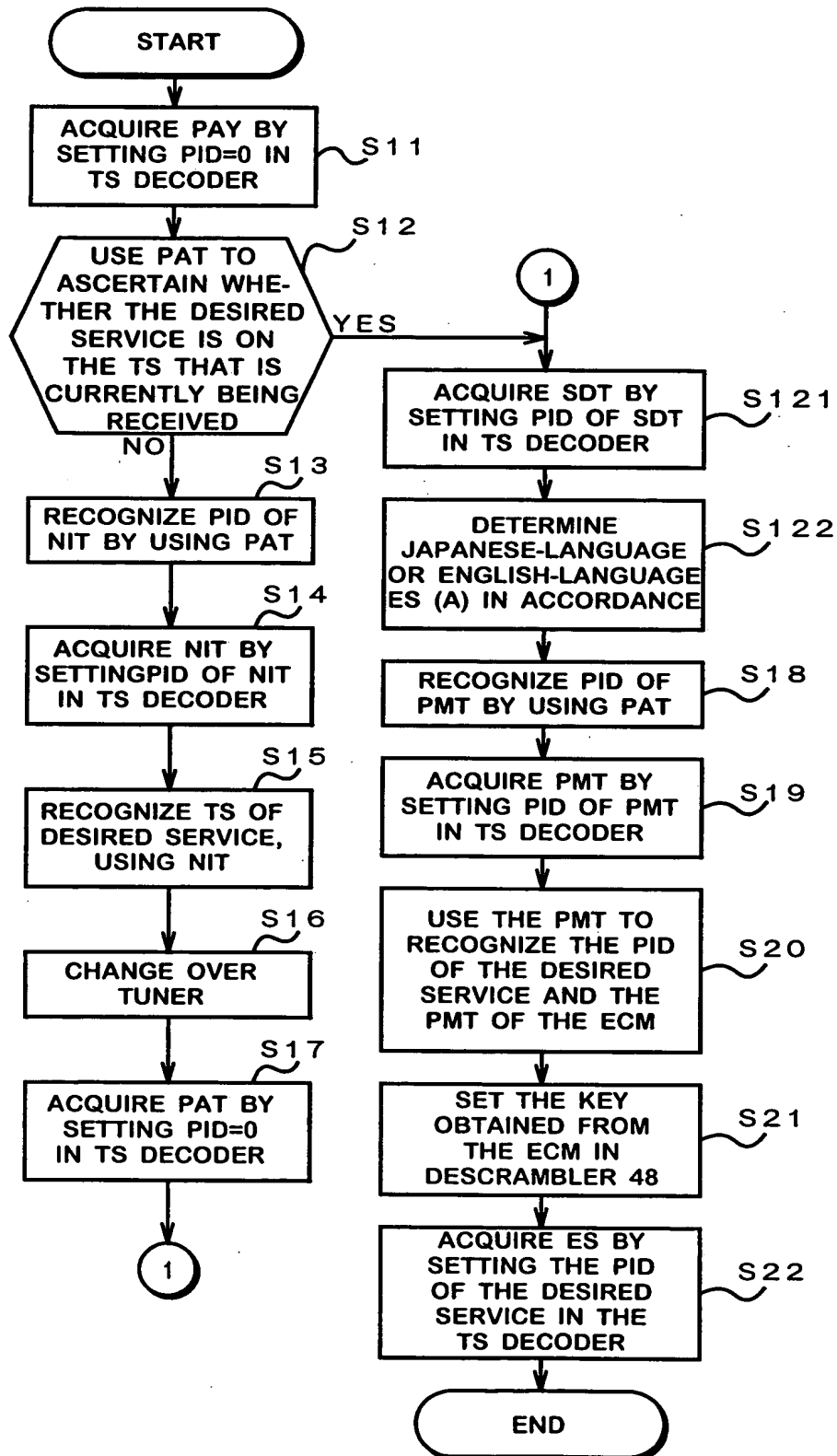


FIG.22

RECORDING MODE

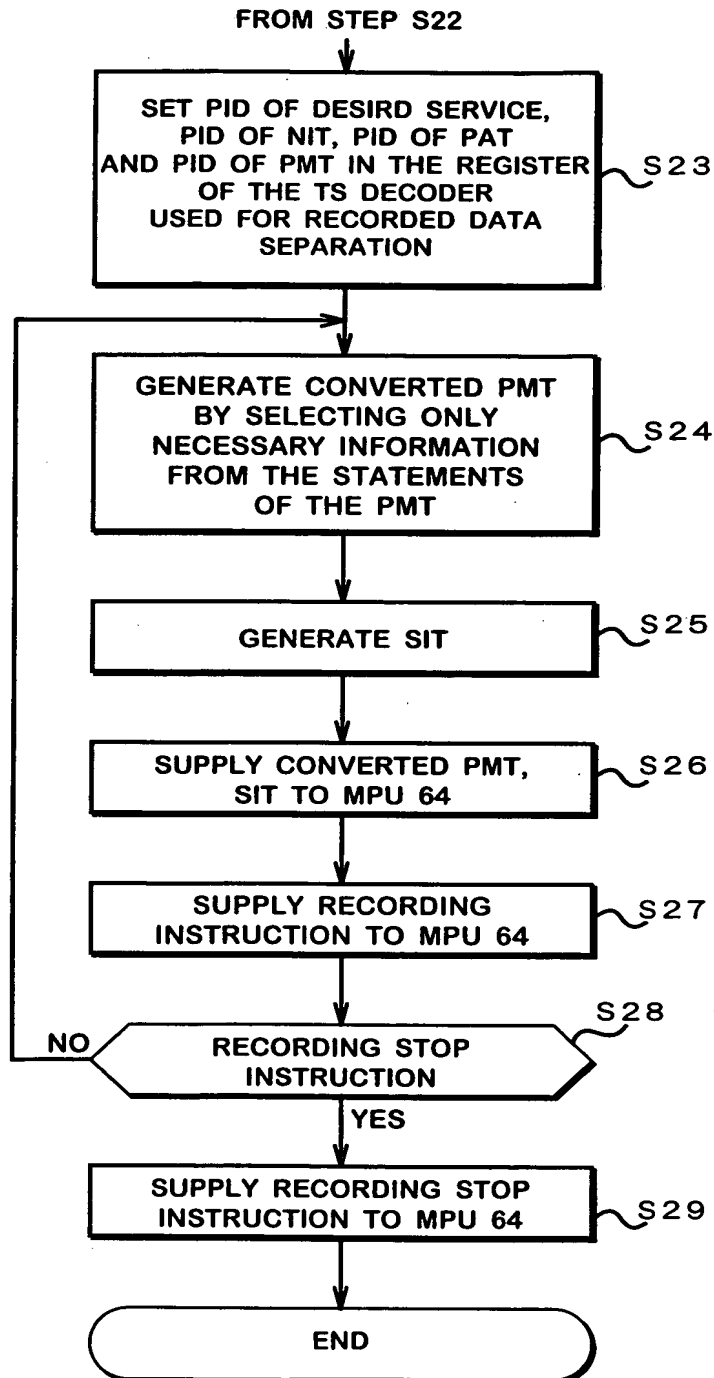


FIG.23

REPRODUCTION MODE

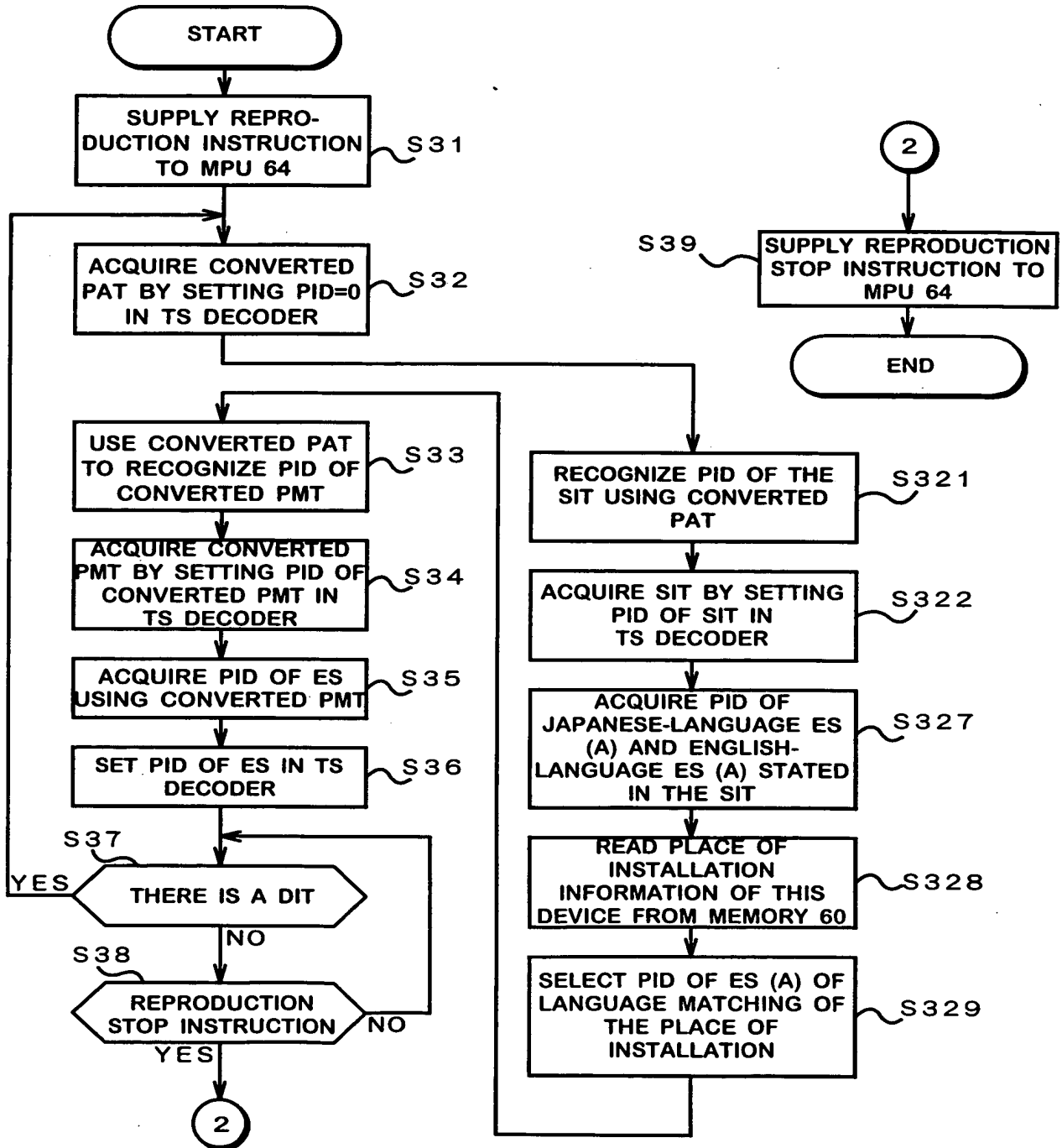


FIG.24

DATA PACKETIZATION

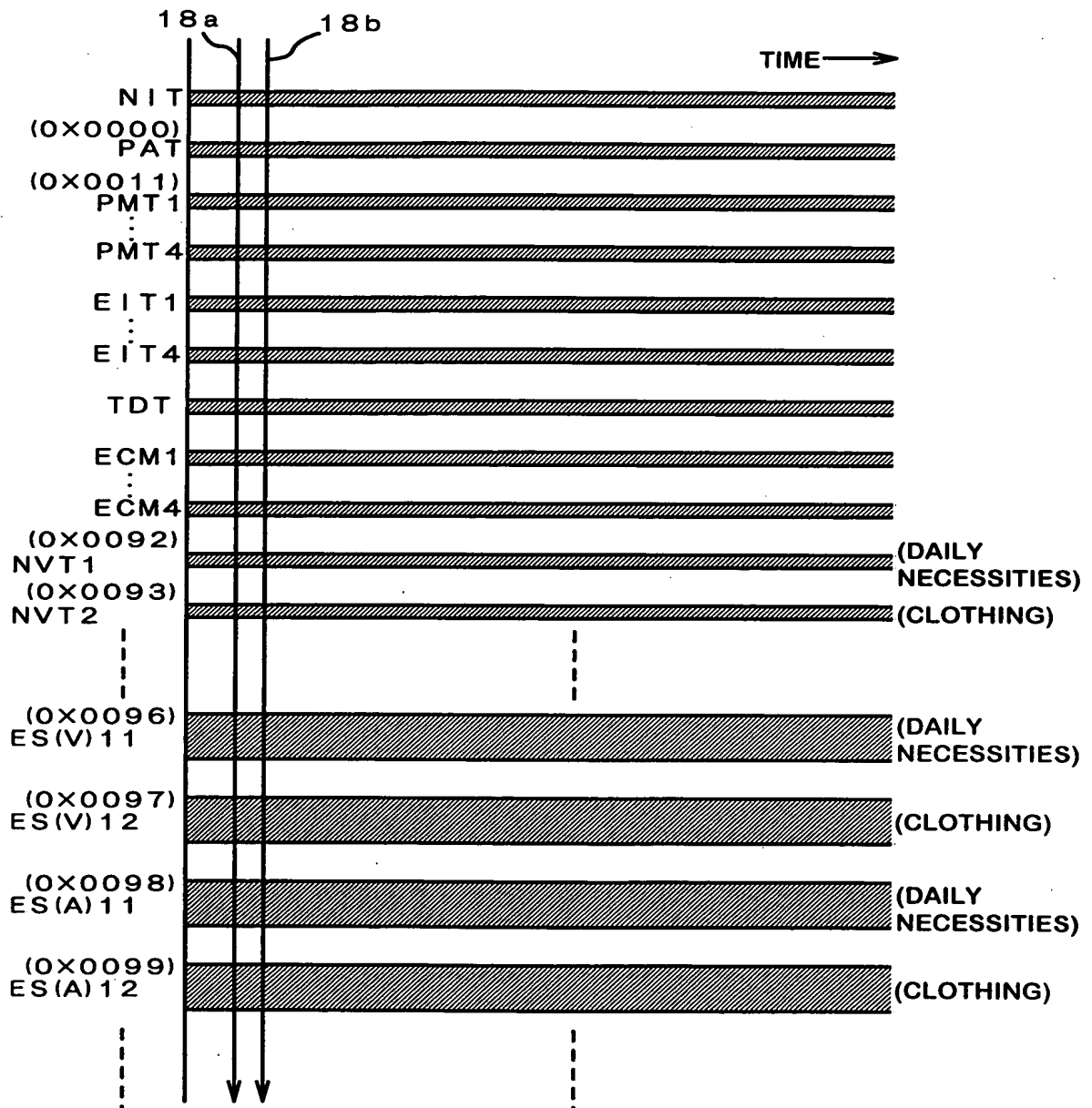


FIG.25

PMT 1 (PID=0X0011)

PACKET ID CORRESPONDENCE

	PID OF ES	PID OF ECM	
VIDEO	0X0096	0X0082	ES (V) 11
	0X0097	0X0082	ES (V) 12
AUDIO	0X0098	0X0082	ES (A) 11
	0X0099	0X0082	ES (A) 12
NAVIGATION DATA	0X0092	0X0082	NVT1
	0X0093	0X0082	NVT2

ENTRY CONTENT

VIDEO	AUDIO	NAVIGATION DATA
0X0096	0X0098	0X0092

ES (V) 11 ES (A) 11 NVT1

FIG.26

PAT (PID=0X0000)

SERVICE	PID OF PMT
SV11	0X0011
SV12	0X0012
SV13	0X0013
SV14	0X0014

FIG.27

NAVIGATION DATA NVT1

OBJECT TABLE

INDEX	TYPE	X	Y	HANDLER	NORMAL CONDITION	FOCUS CONDITION
0	BUTTON	500	200	0	0	1
1	BUTTON	500	400	1	2	3
2	BUTTON	500	600	2	4	5

HIPER LINK TABLE

INDEX	VIDEO	AUDIO	NAVIGATION DATA
0	0X0096	0X0098	0X0092
1	0X0097	0X0099	0X0093

HANDLER DEFINITION TABLE

INDEX	INSTRUCTION (SCRIPT)
0	send_string(Index 0, Index 2)
1	send_string(Index 1, Index 2)
2	goto_contents(Index 1)

BITMAP TABLE

INDEX	DATA (BITMAP DATA)
0	ORDER FROM OSAKA CENTER
1	ORDER FROM OSAKA CENTER
2	ORDER FROM TOKYO CENTER
3	ORDER FROM TOKYO CENTER
4	GO TO CLOTHING SHOP
5	GO TO CLOTHING SHOP

CHARACTER SEQUENCE TABLE

INDEX	CHARACTER SEQUENCE
0	06-6368-XXXX
1	03-1234-XXXX
2	PRODUCT CODE:A-395

FIG.28

NAVIGATION DATA NVT2

OBJECT TABLE

INDEX	TYPE	X	Y	HANDLER	NORMAL CONDITION	FOCUS CONDITION
0	BUTTON	500	200	0	0	1
1	BUTTON	500	400	1	2	3
2	BUTTON	500	600	2	4	5

HIPER LINK TABLE

INDEX	VIDEO	AUDIO	NAVIGATION DATA
0	0X0096	0X0098	0X0092
1	0X0097	0X0099	0X0093

HANDLER DEFINITION TABLE

INDEX	INSTRUCTION (SCRIPT)
0	send_string(Index 0, Index 2)
1	send_string(Index 1, Index 2)
2	goto_contents(Index 0)

BITMAP TABLE

INDEX	DATA (BITMAP DATA)
0	ORDER FROM OSAKA CENTER
1	ORDER FROM OSAKA CENTER
2	ORDER FROM TOKYO CENTER
3	ORDER FROM TOKYO CENTER
4	GO TO DAILY NECESSITIES SHOP
5	GO TO DAILY NECESSITIES SHOP

CHARACTER SEQUENCE TABLE

INDEX	CHARACTER SEQUENCE
0	06-6368-XXXX
1	03-1234-XXXX
2	PRODUCT CODE:B-133

FIG.29

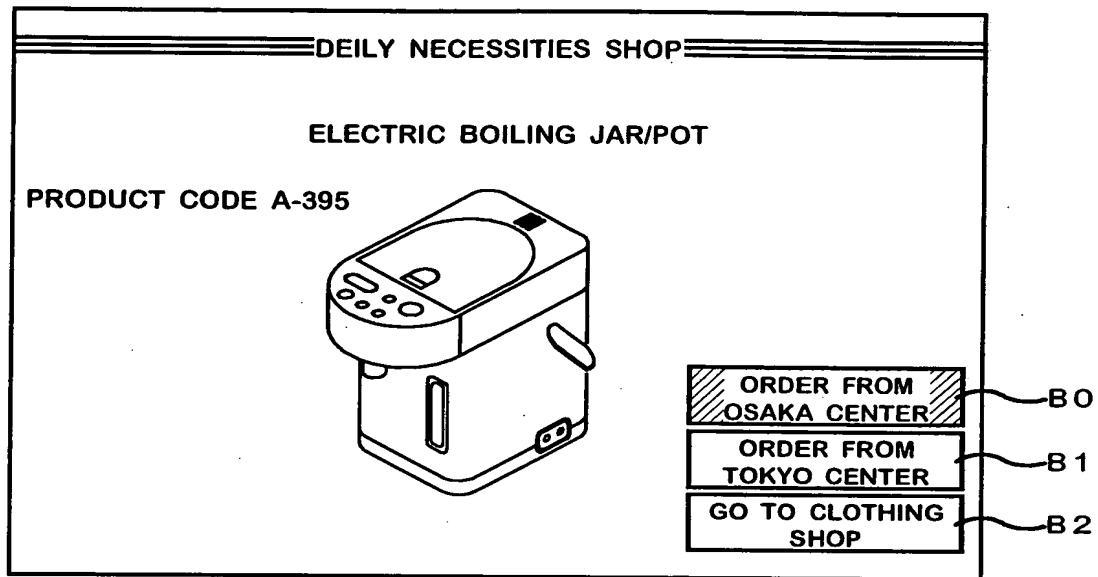
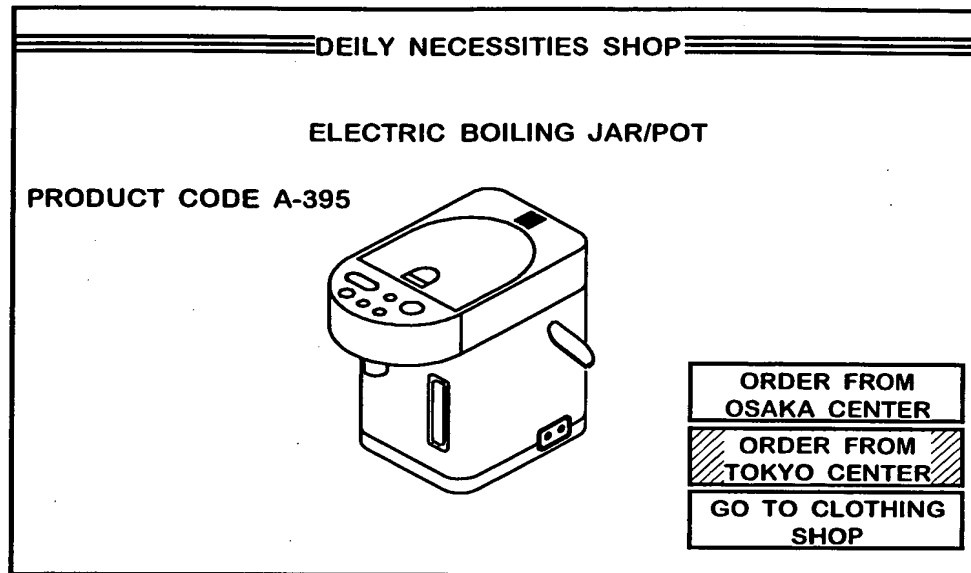


FIG.30



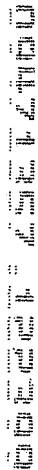


FIG.32

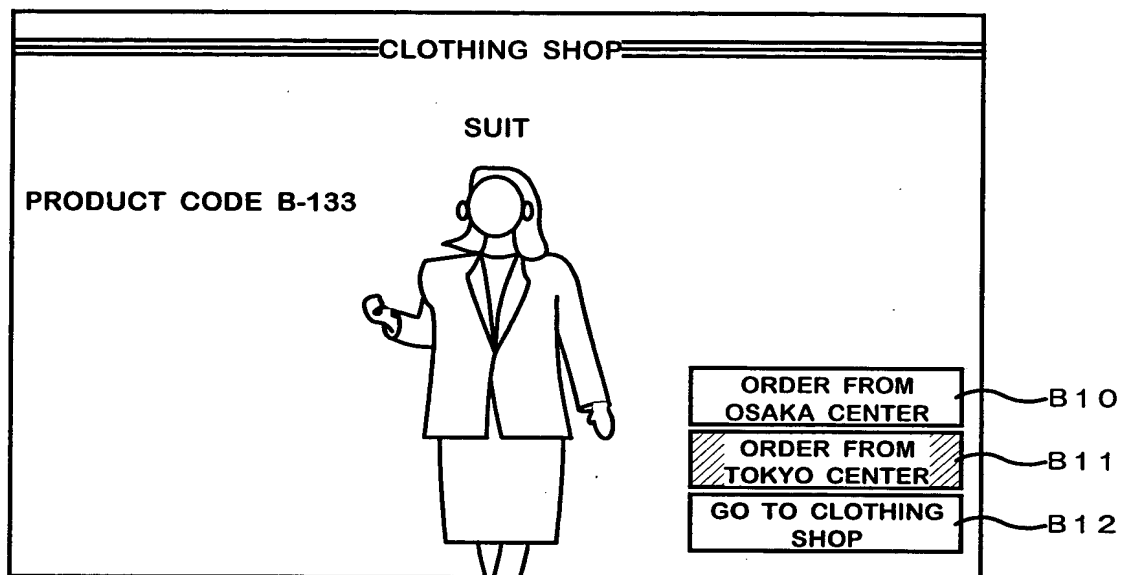


FIG.33

OVERALL LAYOUT DIAGRAM OF
RECEPTION/RECORDING/REPRODUCTION DEVICE
(FOURTH EMBODIMENT)

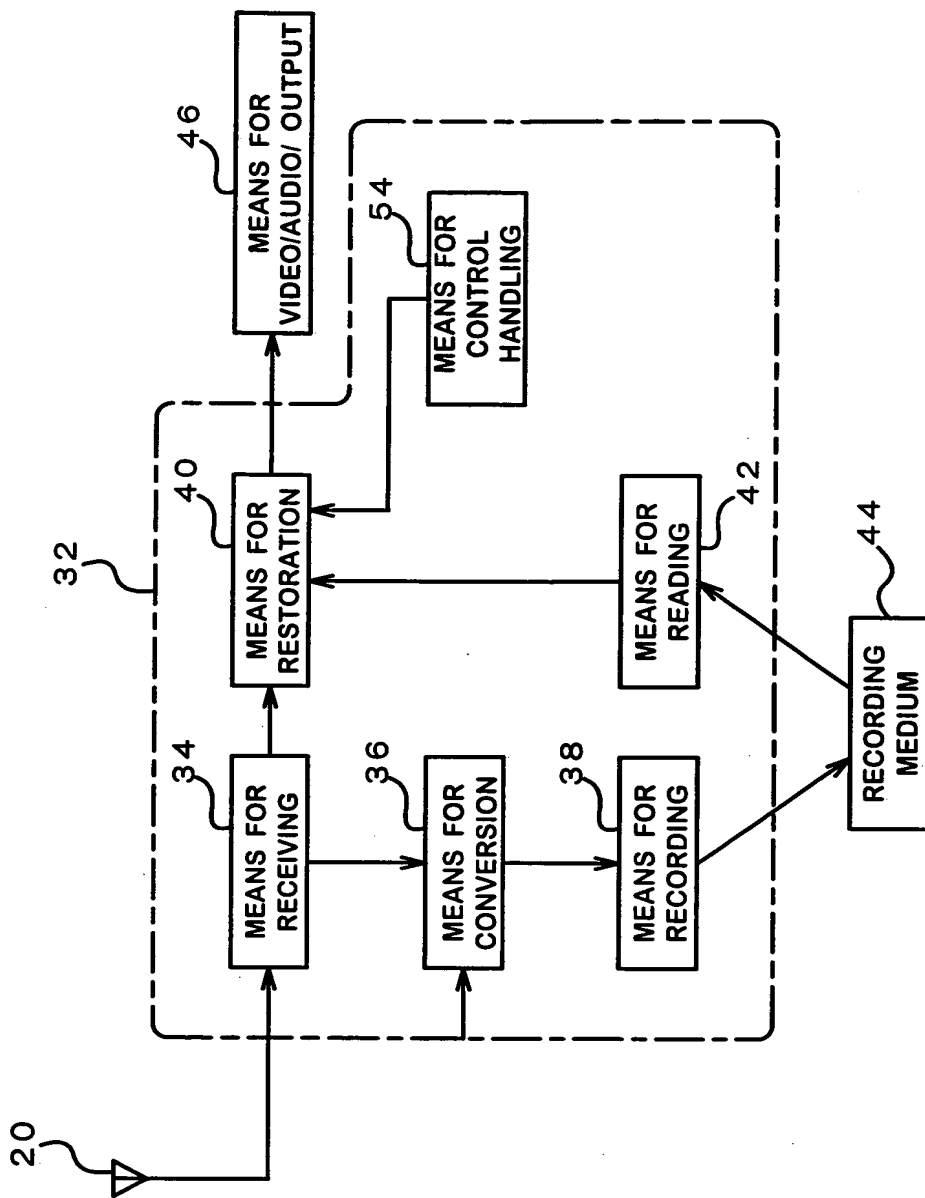


FIG.35

DETAILS OF AV DECODER 52

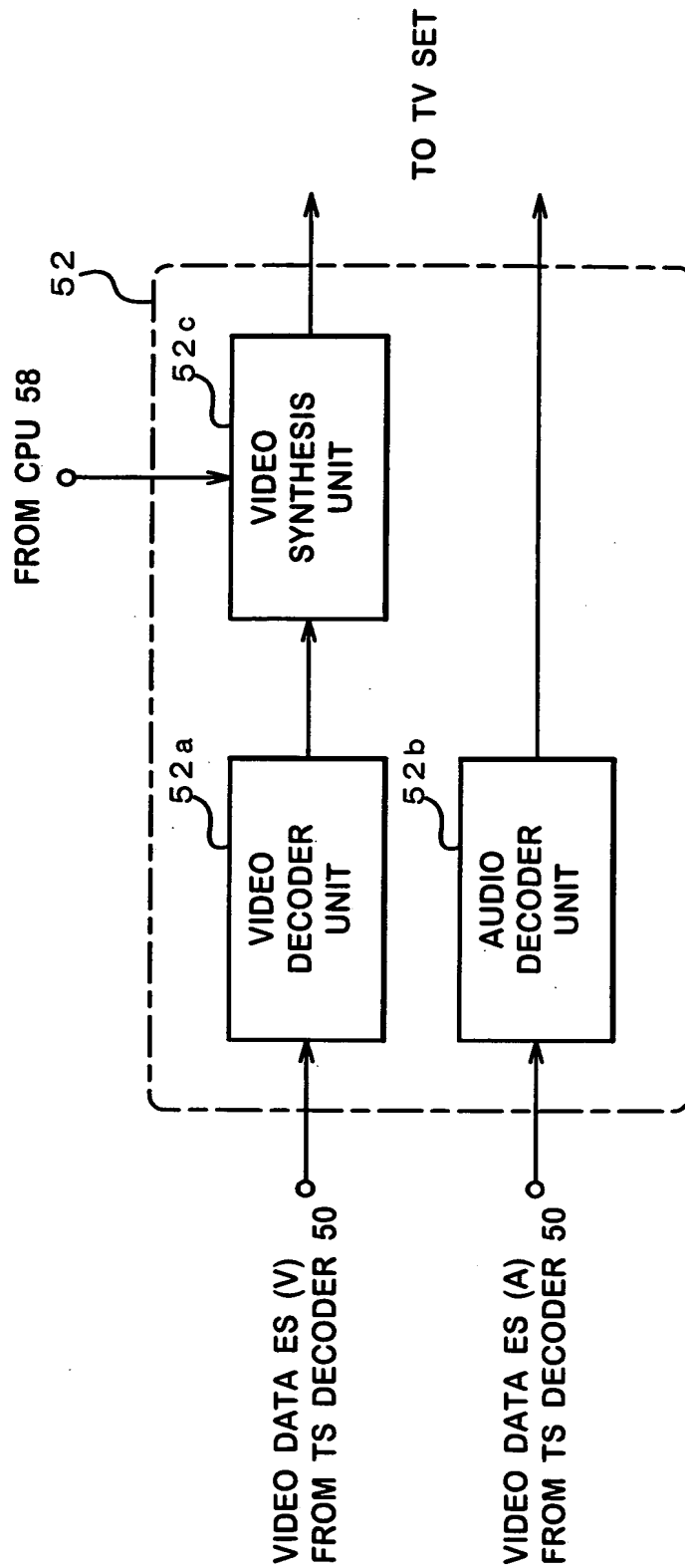


FIG.36

RECEPTION MODE

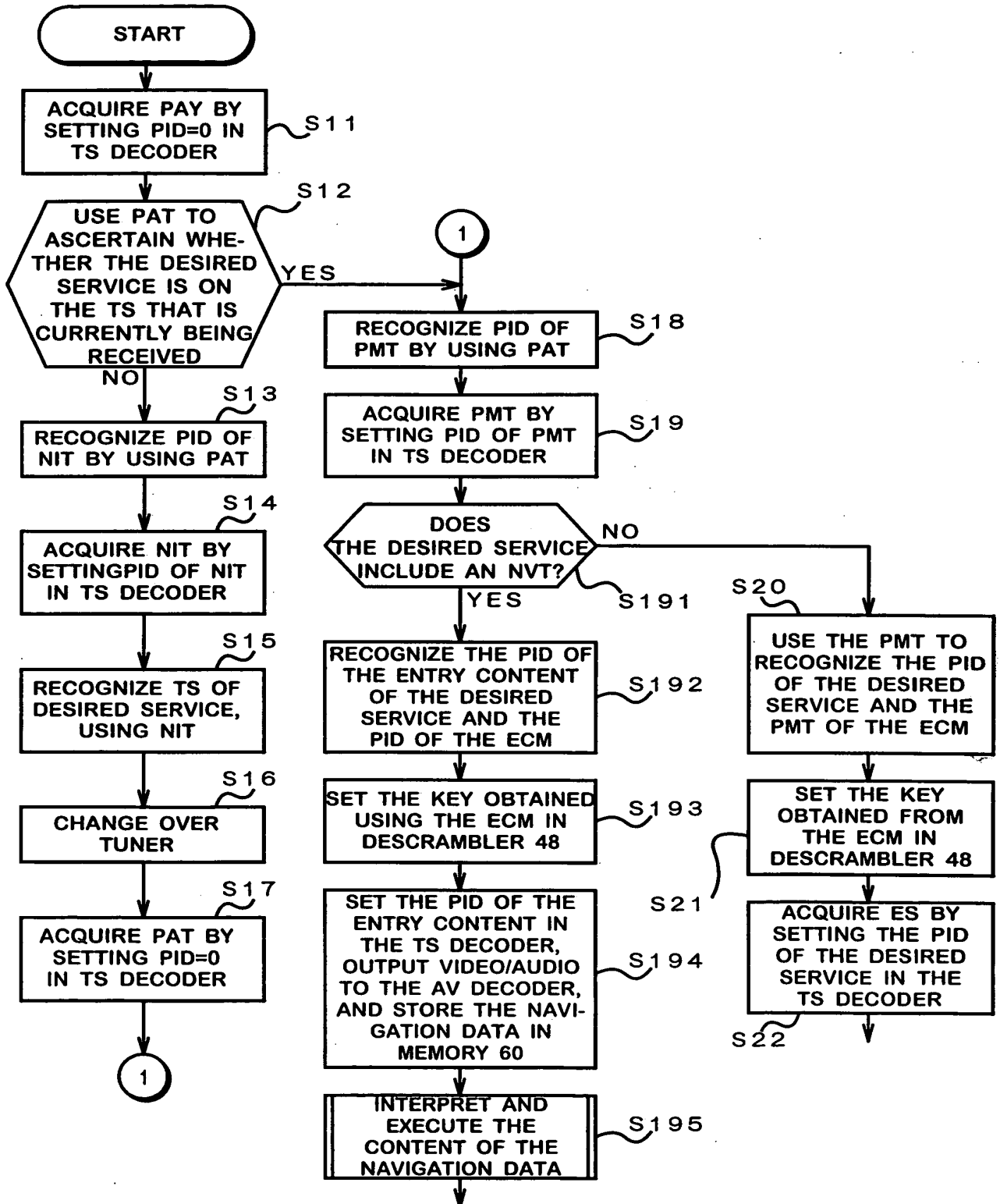


FIG.37

**FLOW CHART OF PROGRAM THAT INTERPRETS
AND EXECUTES THE NAVIGATION DATA**

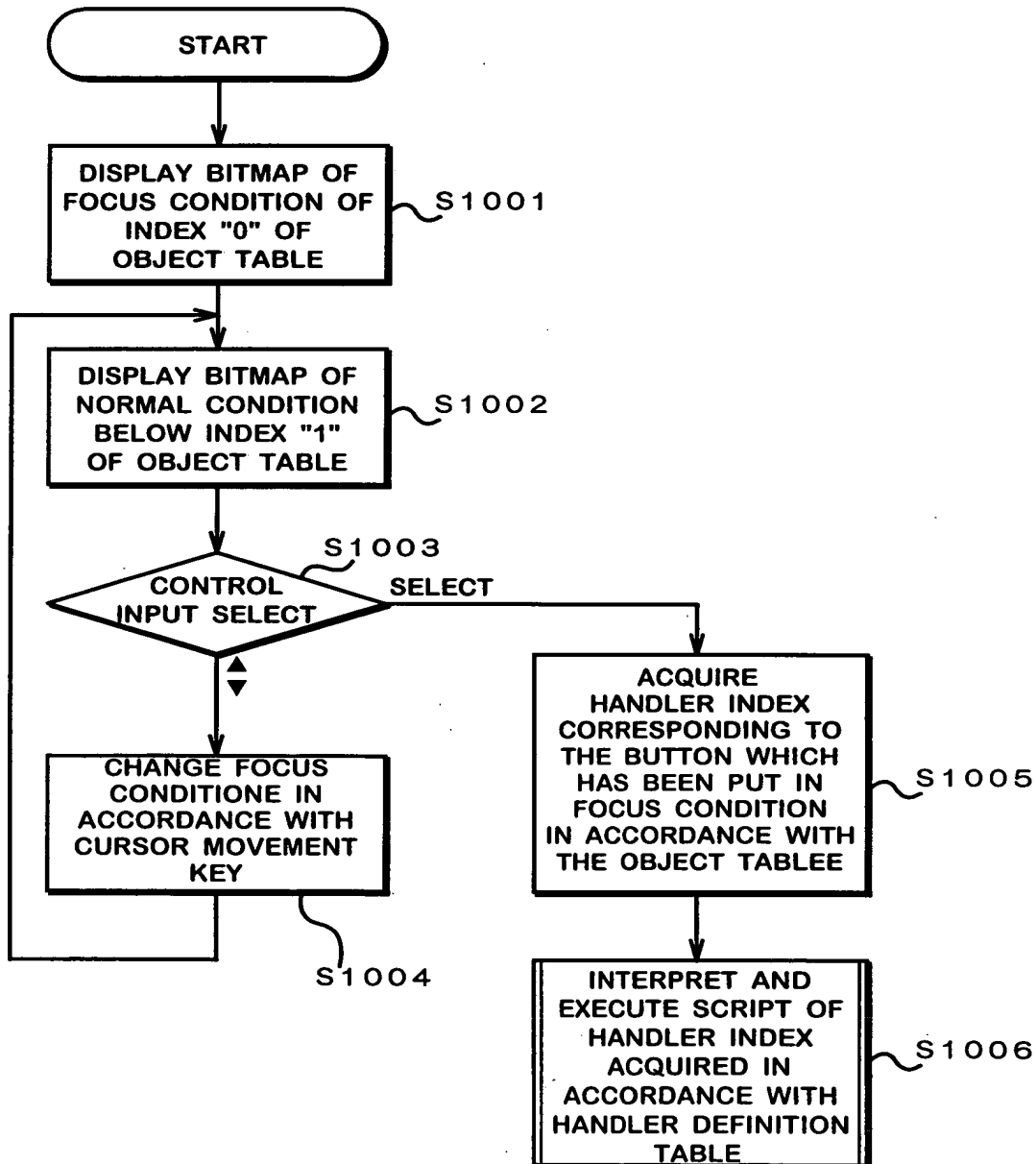


FIG.38

**EXTERNAL APPEARANCE
REMOTE CONTROLLER**

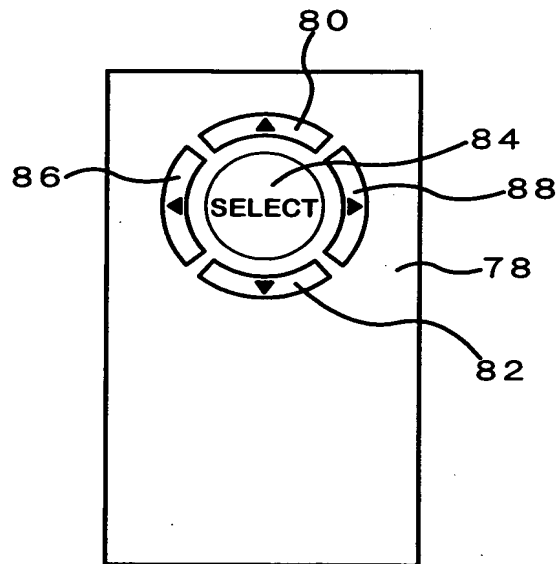


FIG.39

	DATE AND TIME	TELEPHONE NUMBER	RESULT	MODE
1	1998/8/1	06-123-XXXX	○	RECEPTION
2	1998/8/10	03-9876-XXXX	○	RECEPTION
3	1998/8/25	052-111-XXXX	X	REPRODUCTION

ONLINE LOG

FIG.40

RECORDING MODE

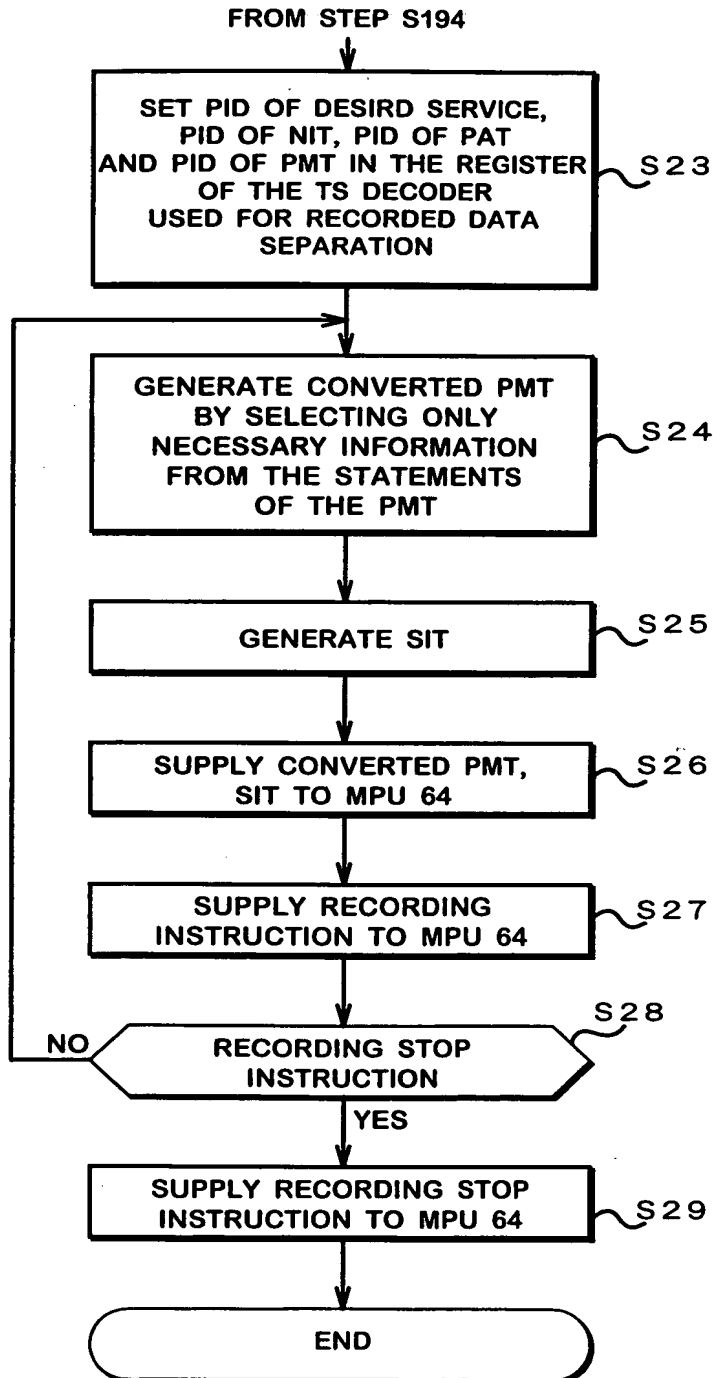


FIG.41

CONVERTED PMT(P I D=0X0011)

PACKET ID CORRESPONDENCE

	PID OF ES	
VIDEO	0X0096	ES (V) 11
	0X0097	ES (V) 12
AUDIO	0X0098	ES (A) 11
	0X0099	ES (A) 12
NAVIGATION DATA	0X0092	NVT1
	0X0093	NVT2

ENTRY CONTENT

VIDEO	AUDIO	NAVIGATION DATA
0X0096	0X0098	0X0092

ES (V) 11 ES (A) 11 NVT1

FIG.42

CONVERTED PAT (P I D=0X0000)

SERVICE	PID OF CONVERTED PMT	PID OF SIT
SV11	0X0011	0X0018

FIG.43

CONVERTED STREAM RECORDED ON
RECORDING MEDIUM



FIG.44

REPRODUCTION MODE

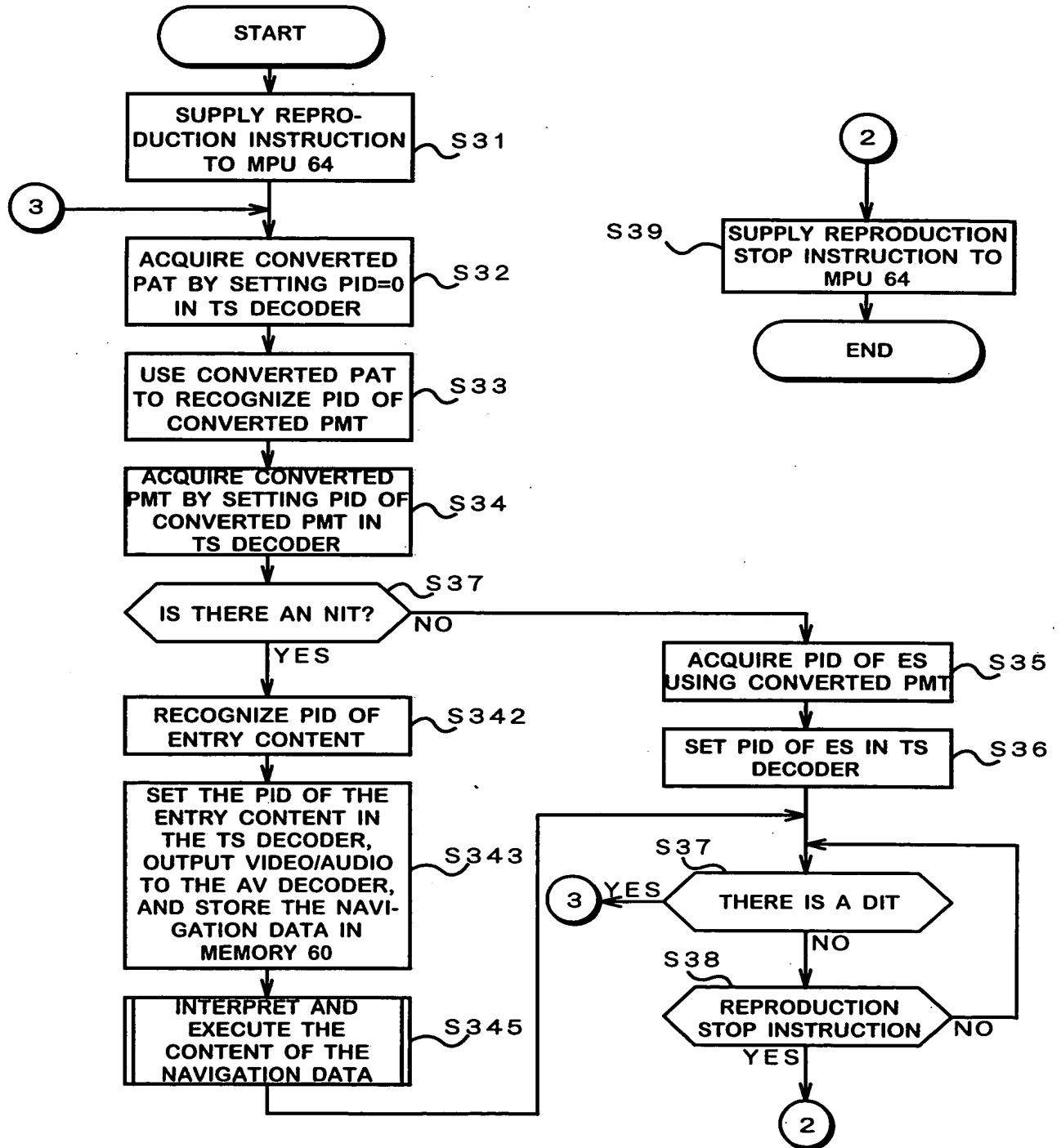


FIG.45

ES OF STATIONARY IMAGE

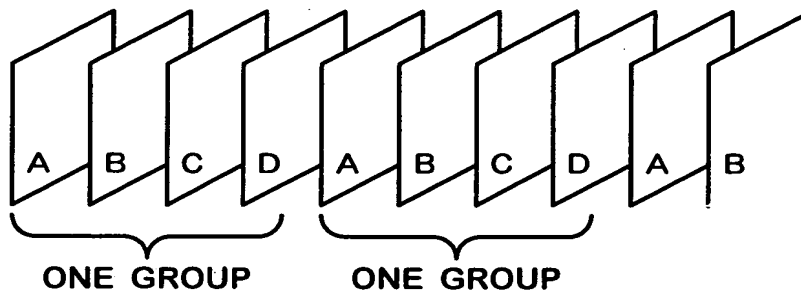


FIG.46

NAVIGATION DATA NVT1

OBJECT TABLE

INDEX	TYPE	X	Y	HANDLER	NORMAL CONDITION	FOCUS CONDITION
0	BUTTON	500	200	0	0	1
1	BUTTON	500	400	1	2	3
2	BUTTON	500	600	2	4	5

HIPER LINK TABLE

INDEX	VIDEO	AUDIO	NAVIGATION DATA
0	0X0096	0X0098	0X0092
1	0X0097	0X0099	0X0093

HANDLER DEFINITION TABLE

INDEX	INSTRUCTION (SCRIPT)
0	<div>If MODE=REPRODUCTION then get_record_time Tr get_current_time Tc if Tc-Tr<10800 then send_string(index 0, index 2) endif If MODE=RECEPTION OR RECORDING then send_string(index 0, index 2)</div> <div>α</div>
1	<div>If MODE=REPRODUCTION then get_record_time Tr get_current_time Tc if Tc-Tr<10800 then send_string(index 1, index 2) endif If MODE=RECEPTION OR RECORDING then send_string(index 1, index 2)</div> <div>β</div>
2	goto_contents (index 1)

BITMAP TABLE

INDEX	DATA (BITMAP DATA)
0	ORDER FROM OSAKA CENTER
1	ORDER FROM OSAKA CENTER
2	ORDER FROM TOKYO CENTER
3	ORDER FROM TOKYO CENTER
4	GO TO CLOTHING SHOP
5	GO TO CLOTHING SHOP

CHARACTER SEQUENCE TABLE

INDEX	CHARACTER SEQUENCE
0	06-6368-XXXX
1	03-1234-XXXX
2	PRODUCT CODE:A-395

FIG.47

NAVIGATION DATA NVT2

OBJECT TABLE

INDEX	TYPE	X	Y	HANDLER	NORMAL CONDITION	FOCUS CONDITION
0	BUTTON	500	200	0	0	1
1	BUTTON	500	400	1	2	3
2	BUTTON	500	600	2	4	5

HIPER LINK TABLE

INDEX	VIDEO	AUDIO	NAVIGATION DATA
0	0X0096	0X0098	0X0092
1	0X0097	0X0099	0X0093

HANDLER DEFINITION TABLE

INDEX	INSTRUCTION (SCRIPT)
0	<pre> If MODE=REPRODUCTION then get_record_time Tr get_current_time Tc If Tc-Tr<10800 then send_string(Index 0, Index 2) endif If MODE=RECEPTION OR RECORDING then send_string(Index 0, Index 2) </pre>
1	<pre> If MODE=REPRODUCTION then get_record_time Tr get_current_time Tc If Tc-Tr<10800 then send_string(Index 1, Index 2) endif If MODE=RECEPTION OR RECORDING then send_string(Index 1, Index 2) </pre>
2	goto contents (Index 0)

BITMAP TABLE

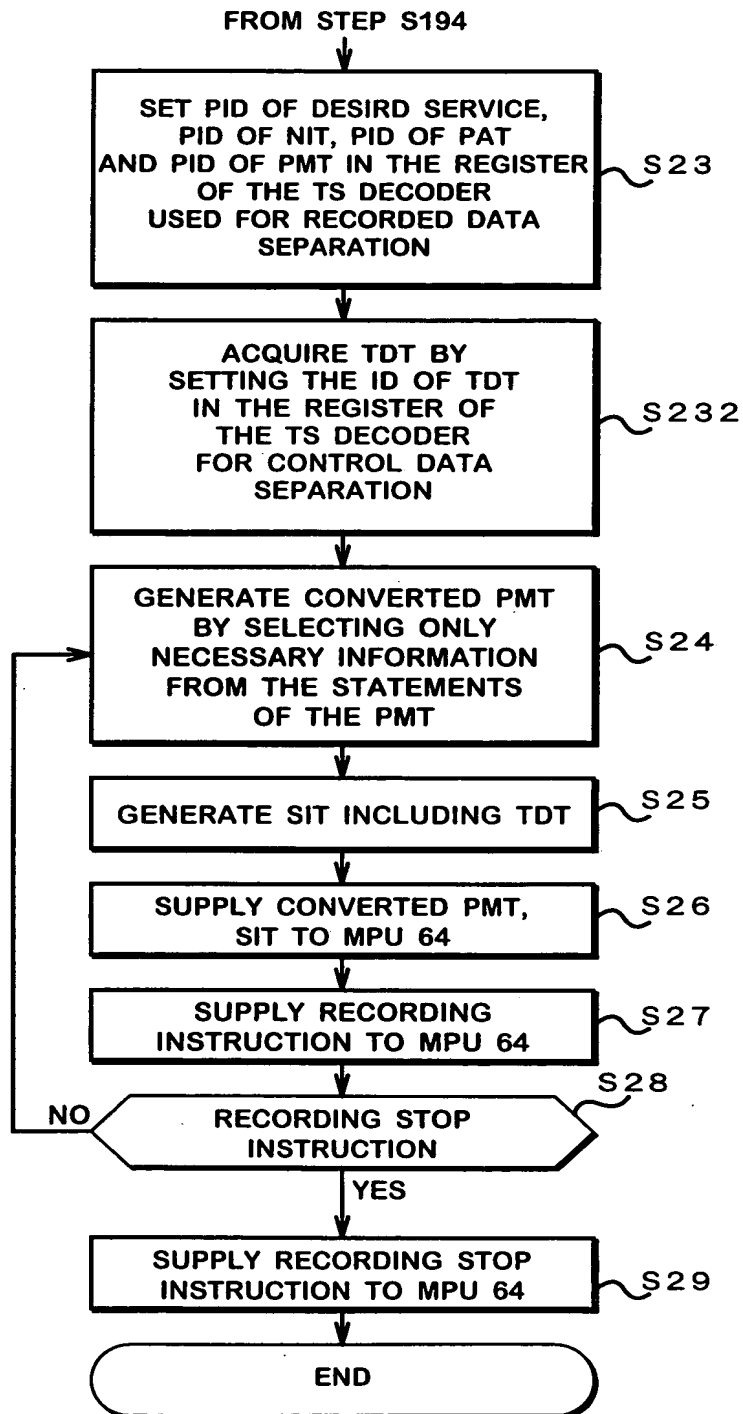
INDEX	DATA (BITMAP DATA)
0	ORDER FROM OSAKA CENTER
1	ORDER FROM OSAKA CENTER
2	ORDER FROM TOKYO CENTER
3	ORDER FROM TOKYO CENTER
4	GO TO DAILY NECESSITIES SHOP
5	GO TO DAILY NECESSITIES SHOP

CHARACTER SEQUENCE TABLE

INDEX	CHARACTER SEQUENCE
0	06-6368-XXXX
1	03-1234-XXXX
2	PRODUCT CODE:B-133

FIG.49

RECORDING MODE



[illegible]

```

IF CONDITION A
(RECORDING DATE AND TIME,
REPRODUCTION DATE AND TIME)
    then go to content (index 0)
    else go to content (index 1)
endif

```

```

IF CONDITION A
(RECORDING DATE AND TIME,
 REPRODUCTION DATE AND TIME)
    then go to content (index 0)
    else go to content (index 1)
endif

```

FIG.51

NAVIGATION DATA NVT1

OBJECT TABLE					
INDEX	TYPE	X	Y	HANDLER	FOCUS CONDITION
0	BUTTON	500	200	0	0 1
1	BUTTON	500	400	1	2 3
2	BUTTON	500	600	2	4 5

HANDLER DEFINITION TABLE					
INDEX	INSTRUCTION (SCRIPT)				CON- DITION
0	send_string(index 0, index 2)				3
1	send_string(index 1, index 2)				3
2	goto_contents(index 1)				0

CHARACTER SEQUENCE TABLE				
INDEX	CHARACTER SEQUENCE			
0	06-6368-XXXX			
1	03-1234-XXXX			
2	PRODUCT CODE:A-395			

HIPER LINK TABLE				
INDEX	VIDEO	AUDIO	NAVIGATION DATA	
0	0X0096	0X0098	0X0092	
1	0X0097	0X0099	0X0093	

BITMAP TABLE		DATA (BITMAP DATA)
0		ORDER FROM OSAKA CENTER
1		ORDER FROM OSAKA CENTER
2		ORDER FROM TOKYO CENTER
3		ORDER FROM TOKYO CENTER
4		GO TO CLOTHING SHOP
5		GO TO CLOTHING SHOP

EXECUTION CONDITION TABLE				
INDEX	EXECUTUON ALLOWED	TIME LIMIT	TIME LIMIT	TIME LIMIT
0	ALLOWED	—	—	—
1	DENIED	—	—	—
2	CONFIRMATION	—	—	—
3	CONDITIONAL	23:59 ON 31ST AUGUST, 1998	—	—
4	CONDITIONAL	—	10800 MINUTES	—

FIG.52

NAVIGATION DATA NVT2

OBJECT TABLE					
INDEX	TYPE	X	Y	HANDLER	FOCUS CONDITION
0	BUTTON	500	200	0	0 1
1	BUTTON	500	400	1	2 3
2	BUTTON	500	600	2	4 5

HANDLER DEFINITION TABLE					
INDEX	INSTRUCTION (SCRIPT)				CON-DITION
0	send_string(index 0, index 2)				3
1	send_string(index 1, index 2)				3
2	goto_contents(index 0)				0

CHARACTER SEQUENCE TABLE				
INDEX	CHARACTER SEQUENCE			
0	06-6368-XXXX			
1	03-1234-XXXX			
2	PRODUCT CODE:B-133			

HIPER LINK TABLE				
INDEX	VIDEO	AUDIO	NAVIGATION DATA	
0	0X0096	0X0098	0X0092	
1	0X0097	0X0099	0X0093	

BITMAP TABLE		DATA (BITMAP DATA)
0		ORDER FROM OSAKA CENTER
1		ORDER FROM OSAKA CENTER
2		ORDER FROM TOKYO CENTER
3		ORDER FROM TOKYO CENTER
4		GO TO DAILY NECESSITIES SHOP
5		GO TO DAILY NECESSITIES SHOP

EXECUTION CONDITION TABLE			
INDEX	EXECUTUON ALLOWED	TIME LIMIT	TIME LIMIT
0	ALLOWED	---	---
1	DENIED	---	---
2	CONFIRMATION	---	---
3	CONDITIONAL	23:59 ON 31ST AUGUST, 1998	---
4	CONDITIONAL	---	10800 MINUTES

FIG. 53

OVERALL LAYOUT DIAGRAM OF
RECEPTION/RECORDING/REPRODUCTION DEVICE
(SIXTH EMBODIMENT)

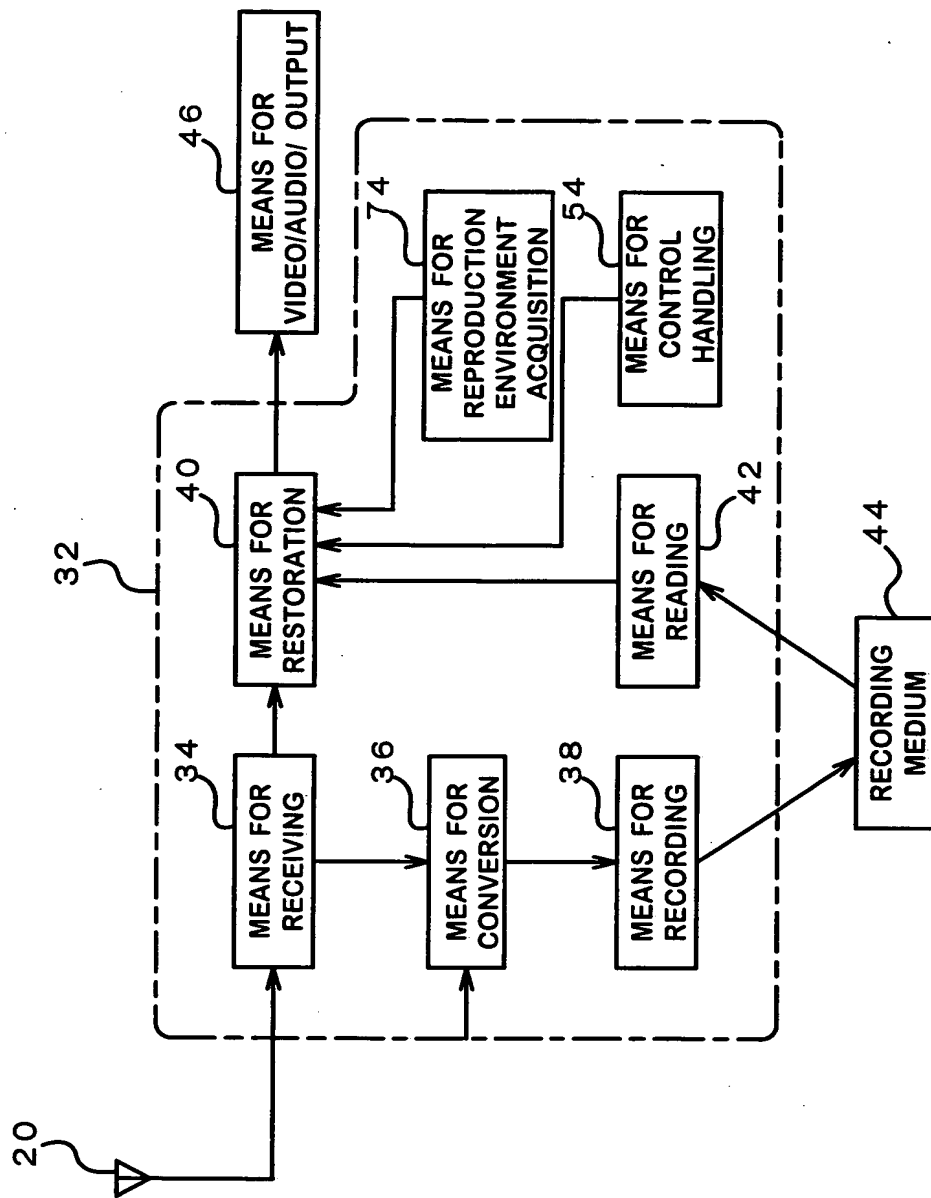


FIG.54

NAVIGATION DATA NVT1 (HTML VERSION)

HTML FILE

```
<html>
<head>
<script>
function shopping_osaka() { //SCRIPT FOR ORDERING FROM OSAKA CENTER
  if (MODE == REPRODUCTION) {
    Tr = get_record_time();
    Tc = get_current_time();
    if (Tc - Tr < 10800) {
      send_string("06-6368-XXXX, "PRODUCT CODE":A-395);
    }
  } else if (MODE == RECEPTION || MODE == RECORDING) {
    send_string ("06-6368-XXXX, "PRODUCT CODE":A-395);
  }
}

function shopping_tokyo() { // SCRIPT FOR ORDERING FROM TOKYO CENTER
  if (MODE == REPRODUCTION) {
    Tr = get_record_time();
    Tc = get_current_time();
    if (Tc - Tr < 10800) {
      send_string("03-1234-XXXX, "PRODUCT CODE":A-395);
    }
  } else if (MODE == RECEPTION || MODE == RECORDING) {
    send_string ("03-1234-XXXX, "PRODUCT CODE":A-395);
  }
}

function goto_clothing_store() { //SCRIPT FOR TRANSFERRING TO CLOTHING SHOP
  goto_contents("video:0x0097: audio:0x0099: navdata:0x0093");
}
</script>
</head>
<body>
<object id="id0" type="BUTTON" onclick="shopping_osaka();"
  style="left:500; top:200; normal_bitmap_file:bitmap0;
  focused_bitmap_file:bitmap1;" /> // BUTTON FOR ORDERING FROM OSAKA CENTER
<object id="id1" type="BUTTON" onclick="shopping_tokyo();"
  style="left:500; top:400; normal_bitmap_file:bitmap2;
  focused_bitmap_file:bitmap3;" /> // BUTTON FOR ORDERING FROM TOKYO CENTER
<object id="id2" type="BUTTON" onclick="goto_clothing_store();"
  style="left:500; top:600; normal_bitmap_file:bitmap4;
  focused_bitmap_file:bitmap5;" /> // BUTTON FOR MOVING TO CLOTHING SHOP
</body>
</html>
```

210
220
230
200

BITMAP FILE

bitmap 0	ORDER FROM OSAKA CENTER	bitmap 2	ORDER FROM TOKYO CENTER	bitmap 4	GO TO CLOTHING SHOP
bitmap 1	ORDER FROM OSAKA CENTER	bitmap 3	ORDER FROM TOKYO CENTER	bitmap 5	GO TO CLOTHING SHOP

FIG.55

NAVIGATION DATA NVT2 (HTML VERSION)

HTML FILE

```
<html>
<head>
<script>
function shopping_osaka() { //SCRIPT FOR ORDERING FROM OSAKA CENTER
  if (MODE == REPRODUCTION) {
    Tr = get_record_time();
    Tc = get_current_time();
    if (Tc - Tr < 10800) {
      send_string("06-6368-XXXX, "PRODUCT CODE":A-395);
    }
  } else if (MODE == RECEPTION || MODE == RECORDING) {
    send_string ("06-6368-XXXX, "PRODUCT CODE":A-395);
  }
}
function shopping_tokyo() { // SCRIPT FOR ORDERING FROM TOKYO CENTER
  if (MODE == REPRODUCTION) {
    Tr = get_record_time();
    Tc = get_current_time();
    if (Tc - Tr < 10800) {
      send_string("03-1234-XXXX, "PRODUCT CODE":A-395);
    }
  } else if (MODE == RECEPTION || MODE == RECORDING) {
    send_string ("03-1234-XXXX, "PRODUCT CODE":A-395);
  }
}
function goto_clothing_store() { //SCRIPT FOR TRANSFERRING TO CLOTHING SHOP
  goto_contents("video:0x0097; audio:0x0098; navdata:0x0092");
}
</script>
</head>
<body>
<object id="id0" type="BUTTON" onclick="shopping_osaka();"
  style="left:500; top:200; normal_bitmap_file:bitmap0;
  focused_bitmap_file:bitmap1;" /> // BUTTON FOR ORDERING FROM OSAKA CENTER
<object id="id1" type="BUTTON" onclick="shopping_tokyo();"
  style="left:500; top:400; normal_bitmap_file:bitmap2;
  focused_bitmap_file:bitmap3;" /> // BUTTON FOR ORDERING FROM TOKYO CENTER
<object id="id2" type="BUTTON" onclick="goto_clothing_store();"
  style="left:500; top:600; normal_bitmap_file:bitmap4;
  focused_bitmap_file:bitmap5;" /> // BUTTON FOR MOVING TO CLOTHING SHOP
</body>
</html>
```

BITMAP FILE

bitmap 0	ORDER FROM OSAKA CENTER	bitmap 2	ORDER FROM TOKYO CENTER	bitmap 4	GO TO CLOTHING SHOP
bitmap 1	ORDER FROM OSAKA CENTER	bitmap 3	ORDER FROM TOKYO CENTER	bitmap 5	GO TO CLOTHING SHOP

FIG.56

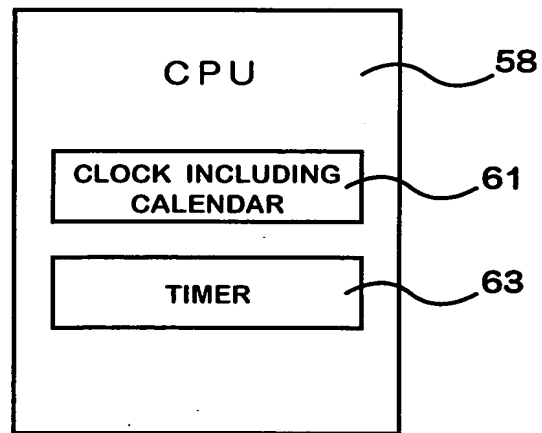
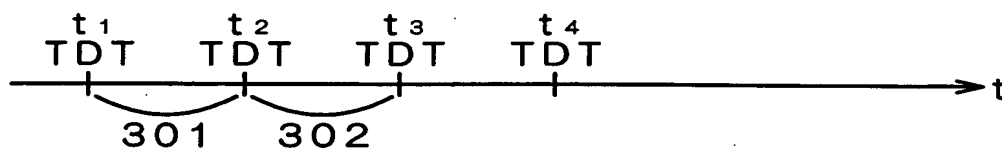


FIG.57



00471357 122300
000000 000000

FIG.58

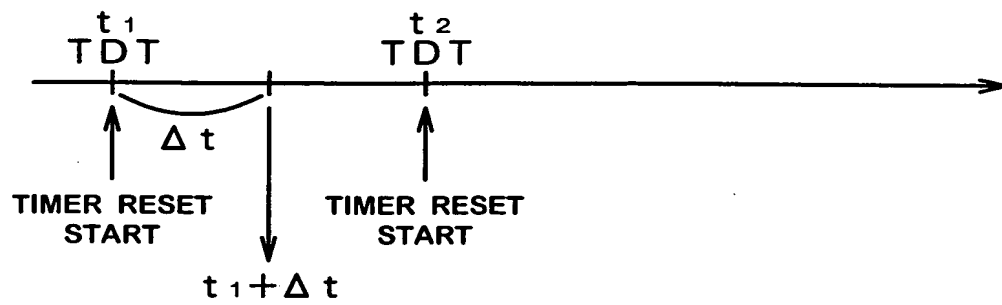


FIG. 59 BLOCK DIAGRAM OF RECEPTION / RECODING / REPRODUCTION DEVICE

